

State EMS Committee Meeting Agenda
 January 8, 2014
 1:00 p.m.

Location: 3760 South Highland Drive
 Salt Lake City, Utah 84106
 3rd Floor Auditorium

Reporter: Susan S. Sprouse

1 January 8, 2014 1:00 p.m.
 2 PROCEEDINGS
 3 ***
 4 **JAY DOWNS: Let's go ahead and get things**
 5 **started here. Welcome everybody to our new year EMS**
 6 **committee meeting. Just so we -- everybody knows right**
 7 **now on the action items, we do not have a quorum. We just**
 8 **need one more to have a quorum. So we have eight. So**
 9 **just kind of keep that in mind.**
 10 **Everybody as you speak today, whoever has**
 11 **something to say, make sure you state your name so that**
 12 **she can get it properly recorded so she can do her little**
 13 **bouncy thing, okay.**
 14 **JOLENE WHITNEY: Susan.**
 15 **JAY DOWNS: Jolene just reminded me that we just**
 16 **need -- we have a new member who sits on the board today,**
 17 **Dr. Tom White.**
 18 **TOM WHITE: Right here.**
 19 **JAY DOWNS: Nice to meet you. My name's Jay**
 20 **Downs. And we'll just go around real quick and just**
 21 **introduce ourselves. So we'll start off with Tom since he**
 22 **is the new guy.**
 23 **TOM WHITE: Hi, Tom White, I'm a trauma surgeon.**
 24 **I was -- this is -- I just finished a stint on the state**
 25 **trauma advisory committee and got kicked off of that**

A P P E A R A N C E S

Jay Downs
 Jolene Whitney
 Bob Grow
 Jeri Johnson
 Lynne Yeates
 Tom White
 Michael Moffitt
 Mark Adams
 Hallie Keller

1 **committee and got asked to -- for this. I'm pleased to be**
 2 **here.**
 3 **JOLENE WHITNEY: You were recruited.**
 4 **DR. PETER TAILLAC: You're not a hell raiser,**
 5 **are you?**
 6 **JAY DOWNS: Welcome.**
 7 **TOM WHITE: Thanks.**
 8 **JAY DOWNS: Pleased to have you. Let's go here**
 9 **and start off to the left. Bob.**
 10 **BOB GROW: Bob Grow, emergency physician up in**
 11 **Davis County and Weber County and medical director of**
 12 **Weber County.**
 13 **JAY DOWNS: Okay.**
 14 **JERI JOHNSON: Jeri Johnson, Wayne County EMS**
 15 **director, rural representative.**
 16 **LYNN YEATES: Lynn Yeates, Box Elder Sheriff**
 17 **representing law enforcement EMS.**
 18 **JAY DOWNS: Okay. I'm Jay Downs, representing**
 19 **the rural fire chiefs.**
 20 **MIKE MOFFITT: Mike Moffitt with Gold Cross**
 21 **Ambulance.**
 22 **MARK ADAMS: Mark Adams representing hospitals.**
 23 **HALLIE KELLER: Hallie Keller, I'm an emergency**
 24 **physician at Primary Children's.**
 25 **JAY DOWNS: Awesome. Everybody welcome. Let's**

1 go ahead now and we'll just start off with the agenda.
 2 Let's go ahead -- and the minutes, has anybody had a
 3 chance to read the minutes? We can't approve them,
 4 though, because we don't have a quorum. So we'll move on
 5 until we get another person here.
 6 Let's -- let's go ahead and let's just have a
 7 hearing on the Davis County advanced airway medic. We
 8 can't act on the elections. So who's representing Davis
 9 County? Is Dr. Mark --
 10 MARK ORASKOVICH: I guess that's us.
 11 JAY DOWNS: Now, from what I understand, Jolene,
 12 this is a renewal of a -- a presentation they did last
 13 year; is that correct?
 14 MARK ORASKOVICH: It is. It's a two-year pilot
 15 project that is --
 16 JAY DOWNS: Is this the rapid intubation?
 17 MARK ORASKOVICH: This is the RSI project,
 18 correct.
 19 JAY DOWNS: RSI, okay. Cool.
 20 MARK ORASKOVICH: Advanced airway medic.
 21 Well, for those of you who don't know who I am,
 22 I'm Mark Oraskovich. I'm an attending ER physician here
 23 in Salt Lake City with Intermountain Healthcare. I work
 24 at Intermountain Medical Center and at Alta View Hospital.
 25 And I represent Layton Fire as their medical director, and

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1 I've been with them since 1998.
 2 We approached your committee about two years
 3 ago, a little over two years ago, requesting permission to
 4 do a pilot project looking at a novel airway team concept
 5 where ground paramedics employ the use of RSI, which is
 6 rapid sequence intubation, to establish a definitive
 7 airway in patients that they are transporting by ground
 8 ambulance.
 9 That project commenced October 1st, 2011. This
 10 -- this last October, we completed our -- our two-year
 11 study period. We had initially done one year when we came
 12 back to the committee. After one year, we were extended
 13 for a second year and that -- that year has now commenced.
 14 So we come before you today to kind of give you
 15 the results of what our pilot project has shown and to
 16 kind of stimulate some further discussion as to what the
 17 future holds.
 18 So when we presented our pilot project, we had a
 19 description, and the description consisted of several
 20 items that we would use an advanced airway team consisting
 21 of a limited number of highly experienced and trained
 22 paramedics. So we were taking a very select group of
 23 paramedics and only training a few to be a member of this
 24 elite airway team.
 25 We also proposed that we would use video --

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1 video laryngoscopy as our primary intubating method on
 2 every intubation. Layton Fire purchased GlideScopes for
 3 their video laryngoscopy. We're doing this study in
 4 conjunction with the Davis County Sheriff's Office. They
 5 started out with King Vision and they've also moved to
 6 GlideScopes for their video laryngoscopy.
 7 Additionally, we said we would do an extensive
 8 initial and ongoing training program. That included a
 9 very intensive upfront training where all the medics went
 10 through the difficult airway course on a national level.
 11 We did a three-day very intensive course before we ever
 12 started the program. We do 48-hour QA on every intubation
 13 that is done. We do twice yearly training and updates,
 14 testing, and we have continued through that through the
 15 whole project vigorous quality assurance with intensive
 16 medical oversight. I essentially review data Danny Wyman
 17 who represents the Sheriff's Office as their physician
 18 director, reviews every intubation that's done within a 24
 19 to 48-hour period and then collect comprehensive data and
 20 eventual consideration of publication of these study
 21 results.
 22 This was essentially the data that we're going
 23 to talk about here today. We're going to review the
 24 cases, demographics, attempts, where we intubated, how
 25 we've done scene times. That's just the summary of what I

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1 would like to show you.
 2 We had the IT people within Layton City create a
 3 data base for us. That's an online data base that's
 4 accessible to those who are within the study, where we
 5 record all our data and have it available for review.
 6 All right. Our hope in this two-year period was
 7 we would have probably 75 to a hundred intubations that
 8 were RSI. We fell a little short of that; we had 52.
 9 There were probably at least that many that in the
 10 decision-making of the paramedic on scene, the decision
 11 was made not to do an RSI and go to the ER instead. So
 12 our numbers could have been a little higher, but overall I
 13 think you'll see that the results are very favorable for
 14 the numbers we did have.
 15 This is a demographic of the age group of the
 16 patients that were enrolled into this pilot project. We
 17 had several 90 year old's and we had them as low as age
 18 16. And sixteen was the bottom age cut off for this pilot
 19 project. Average age was 54.
 20 Whom do we intubate? About three quarters are
 21 medical and about one quarter are trauma, which is a
 22 little surprising. I think if you look at a lot of
 23 national studies on pre-hospital RSI, there's more of an
 24 emphasis on trauma than there perhaps is on medical. If
 25 you break down those medical cases, you'll find that they

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1 really fall into three categories: Severe respiratory
 2 distress and failure, altered level of consciousness --
 3 many of those elderly patients -- and overdoses, which we
 4 have plenty of in Utah.

5 I want to talk about intubation attempts,
 6 because this is something that comes up in the literature
 7 a lot. And before I show you our results, I wanted to
 8 kind of hit on a study that came out last year, which is
 9 very surprising.

10 This is a study that talks about number of
 11 intubation attempts and complication rates that ensue with
 12 subsequent attempts. You can find that with one pass
 13 success rate, you still have a 14 percent incidence of
 14 adverse events. And those can include anything from
 15 desaturation to esophageal intubation, aspiration.

16 Once you fail on your first attempt, and attempt
 17 is defined as blade in through the lips blade out, and you
 18 get into a second pass attempt, your rate of incidence of
 19 adverse events goes up to 47, and then with the third it
 20 goes all the way up to 63 percent. So it's not just being
 21 able to establish a tube without failing, it's being able
 22 to establish a tube on the first attempt.

23 In our study, we had a 75 percent first pass
 24 success rate, 22 percent third -- two attempts and -- and
 25 only 4 percent did we go to three attempts. That's

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1 probably just one, if you run the numbers. We had none
 2 that went beyond three attempts, which would be our
 3 definition of a failed airway.

4 This is another study that was -- I think we
 5 presented this when we first brought the pilot project to
 6 you. This was a study out of Washington State where they
 7 did a control group of non-video RSI and then video RSI.
 8 And they found that their attempts went down to 1.2 --
 9 this is about a hundred -- it's almost, I think, 300
 10 patients in that arm of the study from previously
 11 two-point through from traditional laryngoscopy. And so
 12 you can see our results are very similar at about 1.3.

13 How do we intubate? We made a commitment in
 14 this pilot project that we would attempt every intubation
 15 with video first. We succeeded 81 percent of the time.
 16 If you review those cases, probably the most common reason
 17 that there was a failure on video was secretions, soiling
 18 that tip of the blade, not getting a proper suction and
 19 having to resort to direct laryngoscopy instead. There
 20 were a couple early on in the study where direct
 21 laryngoscopy was moved to probably quicker than it was
 22 later on in the study. And I think that was just getting
 23 phased out with the use of the video scopes.

24 I should mention, too, that the people who've
 25 been involved in this study have also been very active

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1 teaching on both a local, regional and a national level.
 2 Some of our medics have been asked to go to other cities
 3 in the country and present lectures on the use of video
 4 laryngoscopy. I know Jason has done teaching with AirMed
 5 with Salt Lake City on the use of video laryngoscopy and
 6 pick tricks, tools, techniques that can enhance success.

7 RSI initial intubating sats, we have initial
 8 intubating pre-intubation sat of 83 percent. We have
 9 intubating sat of 92 percent and post intubation sat of
 10 96 percent. So overall very favorable trend. I think
 11 you can break them down. There are a couple in there
 12 where the trend is in the wrong direction, but there were
 13 very, very few cases like that.

14 We put a large emphasis in this study on the
 15 importance of oxygenating the patient well. It's not just
 16 about putting the tube in. It's about getting oxygen.
 17 And so we put a strong emphasis on bag valve ventilation
 18 when indicated and pre-oxygenating patients before our RSI
 19 is done.

20 Where do we intubate? 61 percent in the
 21 ambulance. This is en route to the hospital. Twenty-nine
 22 percent are done at scene. Most of these occurred early
 23 on in the study. And interesting, you'll see that there
 24 were some done in the ED.

25 This was a corroboration mainly with the Davis

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1 ER, where the docs had been very receptive to this
 2 program. And as our medics would arrive with a patient
 3 that they knew required intubation but had a very short
 4 transport time, they worked together with the ER docs and
 5 were permitted to perform an RSI in the ER, both for
 6 educational purposes to show the docs there the process
 7 that we're going through and also to facilitate
 8 intubation.

9 These are our scene times for the 52 patients.
 10 Average was 18 minutes. I think you can make a couple of
 11 conclusions from this. We decreased the utilization of
 12 helicopter transport, which probably on average extends
 13 scene time by 10, 15, 20 minutes.

14 Patients that were RSI for the most part were
 15 done in the back of the ambulance on the way to the
 16 hospital. We also decreased frequency of lights and siren
 17 response. So I think you made the comment today, Cory,
 18 you haven't done a light and siren response on an RSI
 19 intubation in two years.

20 CORY COX: Two years.

21 DR. PETER TAILLAC: And the reason for that is
 22 what? That -- that you don't have lights and siren?
 23 MARK ORASKOVICH: Well, it's a safety -- it's a
 24 safety issue. And -- and there's -- you know, it's a very
 25 hot topic in EMS right now that lights and siren not only

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1 put the public at risk, but put our providers and patients
 2 at risk and really don't necessarily transfer into a
 3 benefit. But when you have a flailing 18 year old with a
 4 severe head injury who's got a sat of 70, and you need to
 5 get them to the hospital because your only option is to
 6 get there and intubate them, you tend to drive as fast as
 7 you can and have lights and siren.
 8 Whereas, if it's a controlled setting and
 9 they're intubated and you're oxygenating and ventilating
 10 them well, you have the benefit of not having to use the
 11 light and siren response.
 12 HALLIE KELLER: So they're not putting these
 13 patients in the back of the ambulance and intubating them
 14 there; they're actually putting them in the back of the
 15 ambulance and while they're driving, stopping, going
 16 over -- I mean going over bumps, physically moving, that's
 17 when they are intubating?
 18 MARK ORASKOVICH: They're doing both. They're
 19 doing both.
 20 JASON: But 69 percent of the time, that's an
 21 accurate description, yes.
 22 HALLIE KELLER: When they're moving, they're
 23 physically moving?
 24 MARK ORASKOVICH: Yes. It's added advantage of
 25 the laryngoscopy.

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1 HALLIE KELLER: Right. Absolutely.
 2 TOM WHITE: Mark, what's the definition of a
 3 failure? If the lens is smeared and they take the thing
 4 out and clean it and put it back in quickly, is that a
 5 failure?
 6 JASON: It's an attempt.
 7 MARK ORASKOVICH: It's an attempt. So an
 8 attempt is blade through the lips and blade out.
 9 TOM WHITE: So your definition is very strict?
 10 MARK ORASKOVICH: Yeah. Blade in blade out.
 11 And three attempts --
 12 TOM WHITE: I'm not sure that's fair.
 13 MARK ORASKOVICH: Three attempts without passing
 14 a tube is a failed airway.
 15 HALLIE KELLER: Well, if you're going to be
 16 consistent with the literature that has to be --
 17 (Court Reporter interrupts)
 18 TOM WHITE: Well, what I am saying is garbage
 19 anyway. But that's a pretty strict definition.
 20 MARK ORASKOVICH: It is, and we pulled that from
 21 the literature.
 22 TOM WHITE: It makes it look like a failure, a
 23 true failure is more common than in reality it is. I
 24 congratulate you on that. It supports my bias as a trauma
 25 surgeon in the ER that the video laryngoscopy is changing

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1 the whole --
 2 MARK ORASKOVICH: It is.
 3 TOM WHITE: -- the whole game.
 4 MARK ORASKOVICH: It is, and I think this is one
 5 of the things that we felt very strongly from well before
 6 we ever came to this committee, is that it's a game
 7 changer.
 8 TOM WHITE: Can you -- did you go back and look
 9 and see if those -- there were a couple of days there
 10 where you failed once or twice?
 11 MARK ORASKOVICH: And went to --
 12 TOM WHITE: Any chance that was a person -- you
 13 had one bad guy, one -- one -- one person in your team
 14 that needed more education, or was it possible that --
 15 MARK ORASKOVICH: It didn't really come down to
 16 individual. Some -- one of them came down, I know, at the
 17 scene. We were intubating in the street as opposed to
 18 putting him in the back of the ambulance in a more
 19 controlled setting where lighting is better and you have
 20 suction. And that actually changed how we approach them
 21 from then forward.
 22 Each time we have cases that we feel are worthy
 23 of review, whether they meet any set criteria or not, we
 24 would use those as part of the biannual training and
 25 review those cases one-on-one with the entire airway team

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1 present, both from the Layton Fire and Davis.
 2 JASON: To clarify, though, under your
 3 definition of a failure, we have not had a failure yet.
 4 We're 100 percent success -- successful intubation. What
 5 we have had is -- is attempts. And if you look at the
 6 multiple attempts beyond the first, it's always been
 7 related to secretions, whether it's blood, vomit,
 8 whatever. And so suctioning, better positioning, those
 9 things resolve those issues.
 10 TOM WHITE: Right. But that second and third --
 11 second and third attempt as -- as portrayed in that early
 12 study you showed that had devastating effects and
 13 complications --
 14 MARK ORASKOVICH: It does without --
 15 TOM WHITE: -- that's not exactly what you're
 16 talking about here.
 17 MARK ORASKOVICH: No.
 18 TOM WHITE: I mean, those -- it's not to the
 19 same thing. Taking it out, wiping it, and putting it back
 20 in is a second attempt, but it's not the same thing as
 21 trying vigorously to get a tube in, fighting with it, not
 22 getting it in and then having to redo it again with
 23 another person or whatever, those -- those are different.
 24 MARK ORASKOVICH: But if you went back to that
 25 study, they would use the same criteria for attempt as we

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1 do, to blade in, blade out. Now, you could have that
 2 blade in there for a hell of a long time and be looking
 3 around and monkeying around, the sats can be plummeting.
 4 But as soon as you pull it out, you're into attempt No. 2
 5 the next time you go in.
 6 TOM WHITE: Good. Thank you.
 7 MARK ORASKOVICH: We pulled some data from our
 8 non-RSI scene times within Layton Fire from previous years
 9 and compared average scene time to what we find now in our
 10 RSI study, and I think it's interesting that we did not
 11 extend scene times by employing RSI.
 12 So let's get into our sentinel events. We
 13 identified several sentinel events prior to initiating
 14 this project. Incidence of hypoxemia or hypotension with
 15 head injury, obviously a harbinger of -- could cause much
 16 more significant brain injury. We had no incidence of
 17 that. We certainly tracked our sats both before, during
 18 and after intubation, as well as blood pressure.
 19 Use of a rescue airway or surgical cric, none of
 20 those were required in this study. Medication errors,
 21 adverse reactions, none.
 22 Unrecognized or failed or misplaced tube, we had
 23 none. We had one where there was a patient who was
 24 intubated non-RSI, required a paralytic and rode to the
 25 hospital to maintain the tube position and prevent them

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1 from extubating himself. It was a -- it was a severe
 2 trauma patient.
 3 And in transferring from our gurney onto the
 4 trauma bed, there was a brief extubation that was
 5 recognized immediately. It went under a vigorous review
 6 and it was felt to be factors that happened in that year.
 7 JASON: It's mine. I apologize.
 8 MARK ORASKOVICH: So here's some more quality
 9 assurance data. We said at the onset we would maintain an
 10 intubation success rate greater than 90 percent. We hit
 11 100 percent, meaning we had no failed airways. Compliance
 12 with training, 100 percent.
 13 Confirmation of intubation with video
 14 laryngoscopy. This means either at the time we had the
 15 blade in or at the time of transfer of care, or the time
 16 they were arrived at the ER, we would take a picture and
 17 show that that tube was in the proper position. We didn't
 18 hit 95. We didn't record that picture 95 percent of the
 19 time. But you'll notice 80 percent, we had over
 20 80 percent where video was the final device. So we're
 21 using it. It's just that they didn't always record it as
 22 they should have.
 23 Confirmation by receiving M.D. was 100 percent
 24 on AirMed crew.
 25 Application of qualitative capnography. This

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1 one looks disturbing, but there's an explanation behind
 2 this one. If you look at this data, this comes out to
 3 seven patients out of 52 in this study. And five of those
 4 were intubated in an ER setting. Two of those were
 5 intubated and the tube was secured and taped in place just
 6 as they rolled up to the deck of the ER. Of those seven
 7 patients, they did not employ the use of R-capnography.
 8 These were confirmed by devices that the ER uses in their
 9 setting to confirm. And I'm not sure what you're using at
 10 Davis for -- for confirmation of tube, but since five of
 11 those were done in the ER setting and two were done as
 12 they were rolling up to the ER, we did not employ our use
 13 of capnography because there wasn't time. And compliance
 14 of reporting we were 100 percent.
 15 These were just our quality assurance measures
 16 that we had identified at the onset. We don't need to go
 17 too much into that.
 18 So in looking back, this is kind of the mantra
 19 that I think sums up my feelings the best. Intubation
 20 done well is safe. Intubation that is done poorly is not
 21 safe. It doesn't matter where you do the intubation.
 22 I feel that if you put the right tools, the
 23 right techniques, the right training, the right oversight
 24 in the hands of capable paramedics, you'll get the same
 25 results as you do when you put those tools in the hands of

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1 ER doctors or trauma surgeons. And -- and I think we
 2 showed that in the results of first pass success rate and
 3 ability to secure an airway.
 4 We didn't do outcome studies in here. There are
 5 outcome studies that have been in the literature for years
 6 and there are continuing outcome studies that are coming
 7 out.
 8 I threw this one in here because when we began
 9 this program, we presented the San Diego study, which I
 10 think everybody has heard of. It put RSI for trauma
 11 patients in a bad light in a pre-hospital setting.
 12 This is a much more recent study coming out of
 13 Australia that had 312 randomized perspective traumatic
 14 brain injury patients who were either randomized to be
 15 intubated by a paramedic using RSI in the field or brought
 16 to the ER and intubated in the ER. And their goal was to
 17 determine their neuro outcome at six months with the two
 18 arms of the study, and they found favorable outcomes;
 19 51 percent favorable outcome with medics, 39 percent when
 20 they were intubated in the ER.
 21 They're conclusion, and there's a great
 22 discussion in this article, that adults with severe TBI,
 23 pre-hospital RSI by paramedics increases rate of favorable
 24 neurological outcome.
 25 Intuitively, I think we all believe that. It's

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1 not good to have decreased sats. It's just that we've had
 2 a hard time getting studies to prove it. And they are out
 3 there, you just got to find them, and there's more that
 4 are coming out there with time.
 5 **DR. PETER TAILLAC:** Mark, I would just
 6 editorialize the reason they do well, and you do well, is
 7 because you do it well, as you said in your slide. Some
 8 of the other studies that have been out there, I think,
 9 are with agencies that don't maintain the same QA
 10 oversight in training.
 11 **MARK ORASKOVICH:** I think you cannot treat
 12 pre-hospital intubation and RSI like just any other
 13 paramedic skill, like putting in an IV. It requires
 14 intensive training up front, intensive ongoing training.
 15 There's a lot of expense to this. This is not something I
 16 think every agency should or should want to do. It is --
 17 it's -- it takes a lot of investment from the physician,
 18 from the city that pays the bills for that fire department
 19 or EMS agency, and for the paramedics to come into that
 20 rigorous level of training. We think it's successful.
 21 Our two-year study period is up. We are at a
 22 point now where we are in discussions with the Bureau.
 23 And we really have two different directions we'd like to
 24 go and we'd like the input from this council or this
 25 committee as to what you feel would be our best course of

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1 action.
 2 We have been approached by the Bureau to extend
 3 the study for one more year, essentially extend the pilot
 4 project for one more year. In the rule, projects are for
 5 a one-year period, can be renewed yearly, up for a total
 6 of three years.
 7 In the third year of our pilot, what we would
 8 like to do is look at two different medications for
 9 induction and paralysis. And that is rocuronium and
 10 ketamine.
 11 And we would also look at maybe broadening our
 12 age requirement down to a lower age requirement. And I'd
 13 like your opinions on that as well. Right now we have a
 14 cut off of 16 and above. And we would like to consider
 15 taking that down to eight, 10, 12 year old age group.
 16 We -- in looking at cases that we've had of
 17 traumatic injury, there have certainly been patients in
 18 that age group that would have benefited from RSI in the
 19 field and had to wait for para medical transport.
 20 So option No. 1 is to continue the study for
 21 another year, employing two new medications to our list
 22 and broadening our age criteria, and then bringing that
 23 data back to you and back to the Bureau and showing you
 24 our success rates and our trends.
 25 The second option would be two years is up, the

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1 study is complete. We plan to continue using RSI, and we
 2 just need to work with the Bureau on getting a variance
 3 for the meds that we carry, and then we would apply as a
 4 variance to carry additional meds should we choose to do
 5 that.
 6 **TOM WHITE:** Mark, can you explain the rationale
 7 for adding those two medications, making those available?
 8 **MARK ORASKOVICH:** So rocuronium is probably the
 9 one that is worth talking about the most. The reason
 10 behind that is you have a pretty good subset of patients
 11 that have contraindications to succinylcholine. Now in
 12 reality the numbers aren't big in the patients that fall
 13 out of that, but there are contraindications that have
 14 very significant consequences if they're missed. Those
 15 patients -- those contraindications don't exist with
 16 rocuronium.
 17 Rocuronium not only has equal success rates in
 18 terms of favorable intubating conditions, but in some more
 19 recent studies also show that your saturations are
 20 maintained at an appropriate level longer, meaning during
 21 the apnea period, patients tend not to de-saturate quite
 22 as quickly, the thought being they don't fasciculate, so
 23 there's less oxygen demand. And we feel that should be a
 24 med that we consider. I think we've seen it gain a lot of
 25 traction in the ER setting. And I don't know what your

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1 use is at primary but --
 2 **UNKNOWN:** Rocuronium.
 3 **MARK ORASKOVICH:** -- most of our docs in the ER
 4 are using it.
 5 **TOM WHITE:** I guess that's my question. I --
 6 it's -- I think there's a consensus that it's a better
 7 drug in the scenario. Why do you need to test it again
 8 for a year?
 9 **HALLIE KELLER:** Because traditionally sucs has
 10 been used in the -- in the EMS out of hospital
 11 environment, so that's probably standard of care, is it
 12 not, to use sucs in terms of every hospital environment?
 13 **MARK ORASKOVICH:** It is. In the air medical
 14 setting, there's certainly a lot of traction behind
 15 rocuronium, and it is being carried probably by a large
 16 percentage of air medical agencies.
 17 **TOM WHITE:** Especially outside of Utah.
 18 **HALLIE KELLER:** Yeah, AirMed carries it.
 19 **TOM WHITE:** Exactly. And incidentally, in our
 20 teaching elsewhere around the country, rocuronium is not
 21 new in the pre-hospital environment either. There are
 22 many places that have been using it and utilizing it for
 23 many, many years with good success. And I think this is
 24 just the natural evolution while under the umbrella of a
 25 study to say, look, let's look at what RSI looks like

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1 going forward for everybody, and what are the best
 2 medications, what is the best patient group to do this
 3 with.
 4 **MARK ORASKOVICH:** And we -- we've been pressured
 5 even from the start. I know in our early training that we
 6 had here with Eric Barton, he came forward to us before
 7 the study was even done and said, "Why aren't you doing
 8 roc?" And Eric sits on the board for the difficult airway
 9 course.
 10 I know Darren Brody who also heads up that
 11 difficult airway course and heads up the EMS portion, will
 12 come right out and say he hasn't used anything but roc in
 13 the state of New Mexico for what --
 14 **JASON:** Ten years.
 15 **MARK ORASKOVICH:** -- ten years. Succinylcholine
 16 has never been used.
 17 **TOM WHITE:** I ask the question again. It seems
 18 like you're --
 19 **MARK ORASKOVICH:** I know.
 20 **TOM WHITE:** -- reinventing the wheel again.
 21 **HALLIE KELLER:** There's also how long it lasts,
 22 right? Roc only lasts two months instead of a typical
 23 three-month cycle that a lot of people --
 24 **MARK ORASKOVICH:** For storage.
 25 **HALLIE KELLER:** For storage. So that's an

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1 issue, and it requires either refrigeration or requires a
 2 more frequent turnover cycle for carrying that medication.
 3 So that's been another reason that it hasn't been as
 4 frequently used in the pre-hospital.
 5 **MARK ORASKOVICH:** And there is some benefit in a
 6 longer transport, if you're giving succinylcholine and
 7 that patient starts to buck the tube or try to pull out
 8 the tube, we're using sedation first, but in some cases
 9 we're resorting to vecuronium, which has a much longer
 10 health life than using rocuronium right from the start,
 11 which would be likely wearing off soon after their arrival
 12 in the ER.
 13 **JAY DOWNS:** Excuse me, Doc. We got a question
 14 in the back. Please state your name for the --
 15 **RICHARD THOMAS:** So my name is Richard Thomas.
 16 I'm the ED pharmacist at Primary Children. There is a
 17 practical advantage and that is that rocuronium doesn't
 18 come ready to use. So it has to be reconstituted and
 19 somebody's got to draw the dilio in. It's got to go into
 20 the vial. It's got to be dissolved. And all of that
 21 takes time in a potentially very critical situation. So
 22 if you can eliminate all those multiple steps and just
 23 simply draw it out of a vile, it's much easier.
 24 **JAY DOWNS:** Thank you.
 25 **MARK ORASKOVICH:** And then we would use that in

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1 conjunction with ketamine, since the two match up in terms
 2 of their half life, their same dose and they seem to be a
 3 good marriage.
 4 So again, open to discussion. If -- if this
 5 council doesn't feel that this needs to be looked at in
 6 the form of a pilot project, then we take this back to the
 7 state and say we'll ask for a variance and we'll write it
 8 up.
 9 **JAY DOWNS:** Unfortunately, we don't have a
 10 quorum here today, so we can't really act on it. But I
 11 got a question for you. Do you feel like you're done? Do
 12 you think -- do you feel like your study is complete or
 13 would you like to have another year to continue the pilot?
 14 **MARK ORASKOVICH:** I feel like we're done.
 15 **JAY DOWNS:** You feel like you're done? Okay.
 16 **Dr. Taillac,** what's your feelings on it?
 17 **DR. PETER TAILLAC:** And we've discussed this and
 18 I -- my bias a little bit is that what these guys have
 19 done very, very well, and I congratulate you, has really
 20 established potentially a new standard of care in our
 21 state.
 22 I -- I guess, as I've been with the Bureau for a
 23 few years, doing things fast sometimes is not the right
 24 way to go. They've done a great job with the protocol
 25 they have. When they're finished with their pilot

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1 project, there will be other agencies who want to take on
 2 similar projects, I have a feeling, and that will be great
 3 if they can reproduce the same level of oversight,
 4 training, et cetera.
 5 The advantage to them, to answer your question,
 6 extending a year, in my opinion, and including the new
 7 drugs, which aren't new nationally, but are very new for
 8 Utah, pre-hospitally, potentially extending the age down a
 9 bit for the kids, is that when they're really done, then
 10 that will establish sort of the benchmark for the state
 11 for other agencies to then replicate. So for them to stop
 12 now and then they say, oh, yes, and we'd like to use these
 13 other drugs and extend it, is one option. But the
 14 benchmark sort of at that point is succinylcholine and the
 15 training that they have done to this time.
 16 So to me it's -- benefits us to have them
 17 continue to serve the state, if you will, by proving these
 18 things work well. You can train the medics to do it well,
 19 the age issue is successful, et cetera, before we open it
 20 up. At least that's my vote.
 21 **JAY DOWNS:** Okay. Another question I have is,
 22 is that where does that -- I mean, the pilot project ends
 23 today, where does that leave them? Are they -- they done?
 24 They can't do any RSI until it's approved by the state?
 25 Would that --

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1 MARK ORASKOVICH: Yeah.
 2 DR. PETER TAILLAC: Jolene, let you answer, the
 3 rule expert. I think they would apply for a variance to
 4 continue doing what they're doing essentially.
 5 JOLENE WHITNEY: I was looking at the pilot
 6 project rules and the department or committee as
 7 appropriate shall allow the EMS provider involved in the
 8 study to appear before the department or committee as
 9 appropriate to explain and express its views before
 10 determining to rescind the waiver for the project. And
 11 then all it says after that is, at six months there before
 12 the project is supposed to be completed, the medical
 13 director will submit their preliminary findings and
 14 recommendations for change in the project requirements.
 15 So that's all the rules state about where we go from here.
 16 DR. PETER TAILLAC: Yeah, my sense was, it ends,
 17 and then you sort of -- in a sense become like everyone
 18 else, and if you want to do the extra thing, you apply for
 19 a variance, which obviously given your track record would
 20 be favorably viewed, I'm sure.
 21 JAY DOWNS: It would take time to do it,
 22 correct?
 23 DR. PETER TAILLAC: Given the fact that, you
 24 know, a variance required a training plan and key --
 25 JAY DOWNS: That's all done.

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1 DR. PETER TAILLAC: -- that's all done
 2 essentially. So, no, frankly, I mean, it's not up to me
 3 completely, but if it were up to me, they could start
 4 their variance tomorrow.
 5 JAY DOWNS: Tomorrow.
 6 DR. PETER TAILLAC: Or the day after they submit
 7 it, because they've done all the ground work already.
 8 JAY DOWNS: Sure. Yeah, it -- they've done
 9 everything they need to.
 10 DR. PETER TAILLAC: Yeah.
 11 JAY DOWNS: Members. I mean, can't vote on
 12 anything, but, however, we can give them our feeling and
 13 then take care of it at the next action at our next
 14 meeting. Or do we do that over telephonic or what can we
 15 do with that?
 16 Jolene, what's your thoughts on that?
 17 JOLENE WHITNEY: I'm going to have to check on
 18 that. I really don't know.
 19 JAY DOWNS: Okay. I don't know either. Yes,
 20 sir.
 21 MIKE MOFFITT: I just wanted to, you know,
 22 express thanks for a very professionally run two-year
 23 study and echo Dr. Taillac's comments that while you guys
 24 are in the study mode, and there are a few more things
 25 that maybe we ought to look at, you are developing really

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1 the ground work for a protocol for the state. And I think
 2 you ought to -- you know, I would support you going
 3 further with different medications and lowering the age
 4 for another year so that we cover all that and we don't
 5 come back with a -- with an approved protocol and then
 6 somebody else comes in with those same questions. So
 7 while we're here, while we're in the blender, let's just
 8 keep going.
 9 MARK ORASKOVICH: My question for you, Hallie,
 10 was: What are your thoughts on the age criteria?
 11 Certainly, this would be in discussion with your
 12 attendings.
 13 HALLIE KELLER: No, absolutely. And I think
 14 that it's something -- I think that would be a benefit for
 15 another year is to lower the age. We -- we think we are
 16 all well aware that EMS management of the pediatric airway
 17 is historically quite broad. And so to find, you know, an
 18 area that we can improve this, I think would be fantastic.
 19 So lowering that age limit, I think, would definitely be
 20 something that we should look into, and would be a benefit
 21 of extending this.
 22 MARK ORASKOVICH: Do you have an age in mind?
 23 HALLIE KELLER: I need to think about it.
 24 MARK ORASKOVICH: Okay.
 25 HALLIE KELLER: I mean, I -- I agree with you,

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1 definitely not less than age eight.
 2 MARK ORASKOVICH: That would be our absolute
 3 minimum.
 4 HALLIE KELLER: But I -- I'd have to think about
 5 that. But I'd be very interested.
 6 JASON: Are you using the GlideScope routinely
 7 in the --
 8 HALLIE KELLER: Yeah, we have GlideScope in the
 9 ER.
 10 TOM WHITE: Routinely might be a stretch.
 11 HALLIE KELLER: Routinely, it's not our first.
 12 I mean, we do direct.
 13 MARK ORASKOVICH: So one -- one thing to add to
 14 that question specific to pediatrics, the GlideScope we
 15 have now, the way that we use it, we can go down to age
 16 eight without buying additional equipment to do that. But
 17 even if we had to do that, we would. But one of the
 18 considerations for us is lowering that age group still
 19 allows us to well use the GlideScope or -- or -- or any of
 20 the other video devices that we're currently employing and
 21 would absolutely be doing that in the pediatrics subset
 22 also; no question about it.
 23 HALLIE KELLER: And I have -- I mean, they
 24 have -- we have it too, they have the pediatric blade, but
 25 then there are different tubes that actually thread

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1 through that GlideScope blade, and some of them you can't
 2 thread if you don't have the right equipment. I mean, it
 3 does require --
 4 **MARK ORASKOVICH:** We can go down to age eight
 5 with what we have with no problem right now.
 6 **JAY DOWNS:** Bob.
 7 **BOB GROW:** So, you know, I work with a group of
 8 about 20 docs. We're at two other receiving hospitals
 9 that you routinely take patients to, and, you know, it's
 10 kind of these issues have percolated through our group.
 11 There's been a fair amount of concern about rocuronium.
 12 I'm sure this is not the first you're going to hear this,
 13 but --
 14 **HALLIE KELLER:** About what?
 15 **BOB GROW:** About using roc.
 16 **HALLIE KELLER:** Roc.
 17 **BOB GROW:** I guess my question is: Are you
 18 planning to use it as your primary paralytic or as a
 19 second paralytic when there's contraindications to sucs,
 20 or are you just going to use roc for everybody?
 21 **MARK ORASKOVICH:** I would say if we are going to
 22 continue this and -- and do the third year of the pilot
 23 project, I would like to see us go primarily to
 24 rocuronium. That would be my preference. And -- and I
 25 don't know if we've really discussed that formally yet in

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1 terms of how we would do that. Do you have a thought,
 2 Peter?
 3 **DR. PETER TAILLAC:** Um, I think your medics have
 4 matured to the point where you can give them more tools,
 5 and they can design their paralytic program, treatment
 6 plan that day to that patient. And if for some reason roc
 7 under -- as you develop the protocol for roc, you come up
 8 with the times you'd use it and the times where you might
 9 look at sucs instead, and I'd suggest putting it on as an
 10 additional tool, not taking sucs off, so you have all
 11 those tools in your toolbox, and then design the protocol
 12 for when you want to use roc, whether it's going to be
 13 primary, secondary. I mean, I would go for primary, based
 14 on my experience as well.
 15 **But part of that is also negotiating with the**
 16 **docs, I think, to some extent that are going to receive**
 17 **the patients. If they want to have potentially a**
 18 **paralyzed patient come into the ED instead of an awake**
 19 **patient, you know, quote, unquote, awake. But, you know,**
 20 **since your patients are getting that anyway, does it**
 21 **matter. But I'd suggest a conversation with the docs**
 22 **receiving the patients to kind of come up with, you know,**
 23 **a plan that everyone's comfortable with.**
 24 **MARK ORASKOVICH:** The literature tends to spin
 25 it as a benefit that that patient roles into the ER,

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1 especially in the trauma setting, where airways already
 2 established, requires a confirmation on arrival in the ER
 3 and you proceed immediately with your primary, secondary
 4 survey and imaging studies. And that delay of
 5 establishing a definitive airway, which even in, I think
 6 the best of trauma circumstances can be 10, 15 -- 10
 7 minutes in our trauma rooms, that's already done en route
 8 to the hospital, so there's a time savings there. And
 9 then that patient arrives in a very controlled state for
 10 you guys.
 11 **There is going to be that time where that still**
 12 **has to wear off before you can get a competent neuro exam,**
 13 **but I think we're already seeing that when rocuronium's**
 14 **been employed; in fact, having to wait longer.**
 15 **But I'd really like to hear from the group as to**
 16 **what concerns they have and -- and how they would like to**
 17 **see us proceed with it. Is -- is it something you're**
 18 **using routinely up there now?**
 19 **BOB GROW:** I think that's part of the issue. I
 20 mean, you've got, like I said, 20 of us or so who, you
 21 know, we've trained all over the country, you know, people
 22 like me who read the literature, I'm at the meetings. For
 23 me roc is not standard of care.
 24 **MARK ORASKOVICH:** Uh-huh.
 25 **BOB GROW:** And so for -- you know, the vibe in

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1 this room is very different than what our clinical
 2 practice is at the moment. And I guess it -- it just
 3 slaps us a little bit the wrong way to say you guys don't
 4 know your own standard of care in the field you trained
 5 and practiced in. You know, we're just going to kind of
 6 go down this route regardless.
 7 **But I mean, I've probably been in Utah for five**
 8 **years and, you know, granted I haven't practiced out of**
 9 **the state for quite a while. So if everybody else in the**
 10 **country is routinely using roc, and we're the last group**
 11 **left behind, then -- then I guess we've got issues to**
 12 **address beyond what's happening at the committee.**
 13 **But I -- I guess my -- my sense of things**
 14 **generally, both in the EMS field and in emergency medicine**
 15 **in general, is that using roc primarily is certainly not**
 16 **standard of care. At least it's -- at least not locally.**
 17 **And -- and you can show me the studies and maybe**
 18 **that's what we need is some education, but you know, our**
 19 **clinical practice is not that.**
 20 **JAY DOWNS:** There's someone raising their hand
 21 over there.
 22 **ROB BRYAN:** I'm Rob Bryan. I work at IMC. I
 23 have an interest in ED and critical care and I'd be happy
 24 and come and educate your group about rocuronium worldwide
 25 and nationally. Roc has no contraindications, so there's

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1 not the issue of having to forget that someone was in a
 2 wheelchair and you could kill them by making them
 3 hyperkalemic. There is significant benefit to prolonging
 4 the safe apnea iteration in someone that's already sick
 5 anyway.
 6 And I think a lot of people historically have
 7 clung to a false safety blanket in the use of
 8 succinylcholine thinking that it will wear off before your
 9 critically ill patient will start breathing again. And
 10 there's ample evidence to show that in eight minutes that
 11 it takes for a healthy patient to metabolize their sucs
 12 and start moving again, is a lot longer than the four
 13 minutes it takes for a sick person to get profoundly
 14 apneic and to get profoundly hypoxic.
 15 And so I think roc is safer. I haven't used suc
 16 in two years. It requires less thinking and less
 17 remembering of rules.
 18 And the one other drug supply in all of the
 19 recent drug shortages we've had, is that it was two years
 20 ago that there was a national shortage of sucs and we
 21 had -- had nothing. So roc has been a much better agent.
 22 JAY DOWNS: Dr. Taillac, you had a comment?
 23 DR. PETER TAILLAC: I think that's a
 24 conversation that you guys can put together with the
 25 receiving docs and kind of decide personally, because I

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1 think the receiving facility should have some input into
 2 how the care takes place in the field. That's part of the
 3 EMS system between pre-hospital and the in-hospital care.
 4 I -- I just wanted to mention one other thing
 5 unrelated, not to take too long. Cory, you had a
 6 conversation about the expense of this program so far. Do
 7 you mind telling the audience how much you think this
 8 program has cost so far to do?
 9 JAY DOWNS: That would be excellent to share
 10 with us. Thank you.
 11 CORY COX: Cory Cox, Davis County Sheriff's
 12 office. When we first took on this pilot project, I mean,
 13 one of the expenses was the initial equipment costs, the
 14 medication costs, the training costs just to even put on a
 15 class for the equipment and then the personnel expenses.
 16 I mean, we have to pay our people overtime to come in --
 17 to come in and train and then cover their shifts.
 18 And based on my prelim -- preliminary analysis
 19 so far, this -- this training program is up into the
 20 hundreds of thousands of dollars that these agencies have
 21 been committed to this program and -- and not necessarily
 22 directly to this program but indirectly to this program as
 23 well.
 24 So even the non-RSI medics are getting
 25 substantial amounts of training to help support the RSI

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1 medics. And which is -- helps out in the final numbers.
 2 But if an agency does choose to take on a project like
 3 this, they would be prepared for the financial and effect
 4 of that so administrative support is absolutely paramount.
 5 MARK ORASKOVICH: We've tried to set the bar at
 6 an extremely high level realizing we were under intense
 7 scrutiny, and we've been swimming upstream in the arrow of
 8 some literature 10 years ago. And so we would hope that
 9 the state recognizes that and keeps that bar equally high
 10 for any others who would want to consider it because we
 11 think that's what's contributed to our success.
 12 JAY DOWNS: Okay. So --
 13 SCOTT YOUNGQUIST: Scott Youngquist, Salt Lake
 14 City Fire. I was just going to second what Rob was saying
 15 from our emergency department at the U. We use almost
 16 exclusively, I think, rocuronium in place of using sucs.
 17 DR. PETER TAILLAC: I haven't seen it in quite a
 18 while.
 19 SCOTT YOUNGQUIST: I think -- think there is
 20 kind of a tidal wave of rocuronium out there.
 21 The other question I have for you was: How many
 22 eight to -- eight through 13 year -- eight through 15
 23 years old do you think you'll have in the next year?
 24 HALLIE KELLER: Trauma. But other than trauma
 25 not a whole lot. I mean, our intubations are with the

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1 tiny kids, but trauma. But there's not going to be a ton.
 2 I guess that is the bummer.
 3 MARK ORASKOVICH: If I may, we had a patient who
 4 was RSI recently, that had she been six months different
 5 in age we would not have been able to manage her.
 6 Anatomically she wasn't any different, physiologically she
 7 wasn't any different, and we've been constrained by not
 8 being able to do for her what we were sure we could have
 9 by a barrier set by this study. And I think what allowing
 10 us to have a wider inclusion range does, is we're not
 11 looking to go out and find kids to slam tubes into.
 12 HALLIE KELLER: Right.
 13 MARK ORASKOVICH: But what we are looking to do
 14 is based on technology with video, based on the experience
 15 that we've gained from this, our confidence of airway
 16 managers, we now have patients that you so well said that
 17 maybe didn't get managed well before, that we feel we have
 18 the tools and the knowledge and the ability and the
 19 maturity to manage better now. And that we think that
 20 this is absolutely a patient driven thing, which by the
 21 way I will add to Dr. Grow's concern, I don't want anybody
 22 here or elsewhere to think that we're adding rocuronium
 23 because it's the in Vogue thing to do, just like swimming
 24 upstream against pre-hospital RSI.
 25 At the onset of this, we've recognized as we've

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1 gone through this that the thought of pre-hospital RSI has
 2 evolved elsewhere. And that includes the use of maybe
 3 drugs that are new to this area but not new elsewhere.
 4 And it's a patient care issue for us, not a keeping up
 5 with the Jones' issue.
 6 So we believe that we're heading in the right
 7 direction for the right reasons with what we're coming to
 8 you to ask to continue to do in both of these
 9 circumstances, certainly with input from both, so.
 10 SCOTT YOUNGQUIST: Obviously you guys have shown
 11 you can perform this very well and successfully. I guess
 12 the -- the remaining question is: Is it benefiting your
 13 patients? In other words, are they surviving when they
 14 wouldn't have or suffering less neurologic injury, which I
 15 don't think you can answer with the study, obviously, if
 16 we don't get through people. So the Bernards study, I
 17 guess, has to stand for proxy is the only randomized trial
 18 that we have.
 19 But you could certainly look at pre and post
 20 airway management, desaturations; did you compare those to
 21 bag mask ventilation or anything like that?
 22 MARK ORASKOVICH: We did. We didn't have a
 23 control group. And that's -- you know, that's going to be
 24 the million dollar question is, are we making a difference
 25 by improving outcomes? And I think we could apply that

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1 same question to what we do in the emergency room. When
 2 we intubate, are we improving survival, because I don't
 3 know of any studies that show when we do RSI versus, say,
 4 having anesthesiology or somebody else now manage airway
 5 versus not doing airway that we've actually improved
 6 survival and -- and mortality.
 7 SCOTT YOUNGQUIST: Yeah, cause -- one tale of
 8 caution was in analysts looking at, I think it was
 9 Cincinnati Children's Hospital, where they videotaped all
 10 the RSI intubations using their emergency medicine faculty
 11 and fellows, and had an alarming rate of desaturations
 12 leading to chest compression and natural administration
 13 that graded down the system perception.
 14 I would be very, very careful about applying
 15 this to pediatric patients without thinking very carefully
 16 about how you're going to -- you know, what -- what's the
 17 threshold for stopping it in kids. Is it one bad outcome?
 18 HALLIE KELLER: Yeah, that was --
 19 SCOTT YOUNGQUIST: You're not going to have the
 20 numbers to have a real good confidence.
 21 MARK ORASKOVICH: And -- and we don't -- we
 22 don't do those studies a lot, where we're looking at
 23 physicians. And -- and I work in a group of a hundred
 24 physicians. And I dare say that the paramedics I work
 25 with -- with Davis and with Layton know their airway,

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1 algorithms, decision-making better than a significant
 2 portion of my colleagues because they are held to a
 3 standard that we've set higher. And the physicians don't
 4 have to necessarily be held to that standard other than
 5 having M.D. after their name.
 6 JAY DOWNS: Is it -- is it the consensus of the
 7 committee or -- that they want -- we want to go for a
 8 third year on this pilot project, or are you guys thinking
 9 it's done now, or what would you like -- what would the
 10 committee like to do? I know we don't have the quorum.
 11 But what's the consensus of everybody here?
 12 Hallie, what do you think? What --
 13 HALLIE KELLER: I -- I mean, it's difficult
 14 when, you know, he says he feels like the study's done and
 15 he's in the process of doing the study and you say you
 16 feel like we're done, and it's hard for me to say, oh, you
 17 have to do more. To me, it sounds like between roc and
 18 lowering the patient age limit, there is more information
 19 to gain. So --
 20 MARK ORASKOVICH: And maybe I was very blunt in
 21 saying that. I think in terms of what we were looking at
 22 for variables, we've accomplished that.
 23 JAY DOWNS: Completed. Yeah. Which originally
 24 set out to do?
 25 MARK ORASKOVICH: Can we help the state now in

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1 acquiring more data, I'm more than happy to do that.
 2 We're already technically three months into this third
 3 year since it ended September 30th. And so this makes a
 4 nice transition for us to move into looking at age group
 5 differences and medications, because we can move forward
 6 right into that phase within a month.
 7 I would like to sit down with the Davis and
 8 Ogden group and have some discussions because I think we
 9 need to have good rapport with our receiving physicians,
 10 and we all need to be sharing our concerns and -- and
 11 whatnot.
 12 JAY DOWNS: So you'd be willing to continue on
 13 with it?
 14 MARK ORASKOVICH: I would. I would. I don't
 15 want to give the impression that I'm firm that we're done.
 16 I would be more than happy to continue this, acquiring
 17 data, come back to you in a year from now and show you
 18 what we've -- what we've got.
 19 JAY DOWNS: Okay. Mike, what -- what do you
 20 guys think? I'm speaking -- am I speaking for everybody
 21 or what does everybody -- what does everybody like to do
 22 with this? What's the consensus of the group?
 23 MIKE MOFFITT: I've already kind of --
 24 JAY DOWNS: Said what you said.
 25 MIKE MOFFITT: -- said what I said. So I'd like

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1 to see it go another year with the changes.
 2 JAY DOWNS: Bob?
 3 BOB GROW: Well, I think with an entered 52,
 4 you're pretty much obligated to continue the study. I
 5 mean, if we're talking about making a precedent for the
 6 rest of the state and we're going to base it on an entered
 7 52 airways, you got to do more.
 8 JAY DOWNS: Sure. I agree with Bob.
 9 Well, we don't have a quorum to vote on -- I
 10 said that before. So now I'm going to refer back to
 11 Jolene.
 12 What can we do, Jolene?
 13 JOLENE WHITNEY: You can make a recommendation.
 14 And you can vote on that recommendation.
 15 JAY DOWNS: Okay. So basically we're making the
 16 recommendation that you continue the study and the next
 17 meeting we'll vote on the recommendation; is that right?
 18 JOLENE WHITNEY: Well, I'll find out the
 19 mechanism by which you can formalize your recommendation
 20 as a formal vote.
 21 JAY DOWNS: Okay. Does everybody got that? Are
 22 we going to be telephonic --
 23 JOLENE WHITNEY: It's complicated. We have --
 24 we have to make sure that we're operating within the open
 25 meetings.

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1 JAY DOWNS: Yes, absolutely. So on behalf of
 2 the -- of the committee and everything, you guys have done
 3 fantastic. It's something that, I agree, I think you are
 4 setting a benchmark for the rest of the state. I made
 5 myself some notes to go and -- and look into it more and
 6 everything, so, congratulations.
 7 MARK ORASKOVICH: Well, I'd like to give our
 8 sincere gratitude to both, to the EMS Committee and the
 9 Bureau, because none of this would have been possible
 10 without you allowing us to do it and having the faith that
 11 we would do it as we said we would. And so, again,
 12 sincere gratitude for letting us proceed forward with
 13 this.
 14 JAY DOWNS: And I'm sure your patients benefit
 15 and appreciate it. Good job. Thank you.
 16 JOLENE WHITNEY: So do you want to vote on the
 17 recommendation, take a vote from the committee on the
 18 recommendation?
 19 JAY DOWNS: You want that?
 20 Okay. I'll entertain a motion to vote on the
 21 motion. Entertain a motion to vote on the recommendation
 22 to continue the -- the study.
 23 MARK ADAMS: I'll make that motion.
 24 JAY DOWNS: Okay. Motion made.
 25 HALLIE KELLER: I'll second.

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1 LYNN YEATES: And I'll second it.
 2 JAY DOWNS: All in favor say aye.
 3 COLLECTIVE: Aye.
 4 JAY DOWNS: Any nay? No. So it looks --
 5 JOLENE WHITNEY: No abstentions.
 6 JAY DOWNS: Any abstained?
 7 BOB GROW: I guess I'm not -- we're voting on
 8 the motion to do what?
 9 JAY DOWNS: To make a recommendation that they
 10 continue the study. It's confusing because we don't have
 11 a quorum.
 12 BOB GROW: I don't think we -- I don't think we
 13 understand what continuing the study entails yet, because
 14 they haven't told us that. I mean, that's -- right, Mark?
 15 Are we still --
 16 MARK ORASKOVICH: What?
 17 BOB GROW: Under what terms are we continuing
 18 for it? Are we lowering the age? Are we changing the
 19 drugs, or are we continuing as is?
 20 MARK ORASKOVICH: So the study would continue as
 21 is with the addition of writing up a protocol for the use
 22 of rocuronium, ketamine, and lowering our age criteria.
 23 And if you want to have those documents for your review
 24 before you vote on it, that would be fine. We can get
 25 that to you, and we will just continue the protocol under

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1 the option extending for a third year.
 2 JERI JOHNSON: I'd agree. I think we should
 3 have more specifics before.
 4 JAY DOWNS: Okay. Let's continue the --
 5 continue the study and then next month you come with that
 6 information. Is that what your motion is?
 7 MARK ADAMS: I'll amend my motion to include
 8 that stipulation.
 9 JAY DOWNS: Awesome. And the seconded.
 10 Sheriff?
 11 LYNN YEATES: Second.
 12 JAY DOWNS: Okay. Does that clarify? And all
 13 in favor again.
 14 COLLECTIVE: Aye.
 15 JAY DOWNS: Any nay? Any abstain? Good. That
 16 was good. Made it through that one.
 17 Mobile healthcare -- mobile health paramedic
 18 pilot project by Chief Baldwin, salt Lake City; correct?
 19 CLARE BALDWIN: Yes. For those of you who don't
 20 know, I -- I'm Clare Baldwin. I'm the Division Chief of
 21 Medical Services for Salt Lake City.
 22 A little over a year ago, we started working on
 23 a collaborative project with the community including all
 24 of the hospitals, nonprofits, other fire agencies within
 25 the valley. And we -- we had a little get together in

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1 November of 2012 to begin the thought process of community
 2 health.
 3 So we -- we've been working on this community
 4 health program. And at this time we are ready to move
 5 forward. So we're here in discussions that we've had with
 6 some of the members of the Bureau of EMS. It's been
 7 suggested that even though community health ideas are a
 8 little bit fuzzy as far as whether it falls under the
 9 guise of emergency medicine or not, we believe that having
 10 the support of the Bureau of EMS and moving forward with
 11 that -- with that idea that it is an extension of
 12 emergency medicine in more of a preemptive strike rather
 13 than dealing with it immediately, it still will work
 14 through the 911 system.
 15 At this time I'm going to turn the time over to
 16 Dr. Scott Youngquist, and he's going to review our -- our
 17 program initiative. Thanks.
 18 SCOTT YOUNGQUIST: Thanks. This is kind of the
 19 problem that we got into, why we got into mobile health
 20 paramedics. Anyone who practices emergency type care
 21 realizes that not everything, not every call for help is
 22 an emergency. We certainly realize that in Salt Lake
 23 City.
 24 This is some -- these are some of our most
 25 frequent callers here; you can see the top four here.

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1 have -- in 2013, we had 150 unique callers that called 911
 2 at least six times. The top person in 2013 was, I think,
 3 43 at that time. So these are people who either have
 4 terrible luck and have run into problems all the time, or
 5 there's some other unmet need going on. Anybody who
 6 practices emergency medicine knows, that's probably what
 7 it is.
 8 So even though I didn't sign up to see three
 9 months of back pain that's been seen by five other
 10 providers as an emergency physician, that's the reality of
 11 the practice environment which we're in. We've got a 911
 12 system that's open and free to all people, and so it's
 13 going to be used appropriately and inappropriately
 14 sometimes. And sometimes it's naive inappropriate use and
 15 sometimes it's frank abuse of the EMS system.
 16 When someone calls 911, of course, this is going
 17 to lead to some cascading of health care costs. This is
 18 the first domino when they're taken to the emergency
 19 department. EMTALA law applies, and I have to figure out
 20 whether this is a true emergency or not using some
 21 testing, C.T. scans, whatever it might be to figure out if
 22 this person is truly dying from their complaint or not.
 23 And sometimes it's apparent later that they've been seen
 24 yesterday at another emergency department that they went
 25 to by ambulance for the exact same thing, and they didn't

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1 bother to tell me, they already had a C.T. of their
 2 abdomen or whatever. So there's some unfortunate
 3 duplication of services that occurs in the emergency
 4 department when patients go all over the place in
 5 different -- in -- via EMS for care that's a chronic
 6 condition.
 7 It's a high cost care environment, and we also
 8 end up overburdening our emergency departments. And you
 9 guys know that if the emergency department is full and
 10 overflowing, if someone comes in with a heart attack or
 11 someone comes in with a massive trauma, their survival has
 12 gone down statistically, not by very much, but by a few
 13 small percentage points or something like that. And
 14 presumably that's due to the staff being diverted and
 15 resources being diverted to care for these other patients.
 16 So it hurts all of us who seek emergency care if the
 17 emergency departments are overburdened with these nonacute
 18 complaints.
 19 And, of course, it's provider burnout. We
 20 talked to firefighters, paramedics, EMTs, who have seen
 21 the exact same person at three in the morning on every
 22 shift, and they get tired of the lifestyle. So it's no
 23 wonder people burn out from this.
 24 We looked at our top 10 users to try and see if
 25 there were some sort of themes that emerge from the people

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1 who call us the most. And not surprisingly, these themes
 2 relate with societal problems. We're sort of the tip of
 3 the spear when it comes to unsolved problems in society.
 4 So homelessness occurred 90 percent of the time among
 5 these cases, alcohol and drug abuse in seven out of 10,
 6 psychiatric illness in a large proportion, and chronic
 7 disease. Those were the things we noticed were
 8 reoccurring themes among these top 10 users. So these are
 9 problems that society hasn't figured out, so who are we to
 10 figure them out as emergency providers, of course.
 11 Well, this problem starts at dispatch, of
 12 course, where we have non-medically call centers taking
 13 calls and they follow in our system. The -- the Pro QA
 14 priority dispatch method of prioritizing calls and
 15 figuring out what type of response is required, is it
 16 lights and sirens, is a BLS or ALS response. But they
 17 don't have any capability for figuring out is this truly
 18 an emergency or not.
 19 But there is available in emergency
 20 communications a nurse specialist which we're adding to
 21 dispatch. And the idea here is that the lowest acuity
 22 calls would be transferred after they've been screened to
 23 this emergency care nurse who would take a more in depth
 24 history using protocols that come from the American
 25 Academies of Emergency Dispatch. They're all QA. The

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1 person is trained by the academy as well. And that that
 2 person then determines using a directory of services what
 3 is the right response, if any, to the person, or can they
 4 arrange for alternative means of transportation, a taxi
 5 cab, something like that, to an urgent care center, the
 6 patient's primary care doctor.
 7 So this person is a nurse navigator who helps
 8 this undifferentiated 911 caller who seems to have a
 9 nonacute complaint get to the right level of care through
 10 the right transportation means.
 11 And then, in addition to that, we're adding
 12 what's called a mobile health paramedic. This is someone
 13 that is well-trained as a paramedic, but also has the
 14 people person skills to be something more. Something like
 15 a life coach, a helper, a boy scout, and this is someone
 16 who we say you go and find out why this person is calling
 17 us so often and see if you can fix the problem, whether it
 18 be an unstable condition, they need more in-home health
 19 care, whether it's psychiatric illness that's not being
 20 treated well, whatever the problem may be, let's figure
 21 this out and try and get them the help that they need.
 22 So these are the boy scouts we send out. And
 23 they do all sorts of things, but they're -- they're still
 24 operating within their scope of practice. They're not
 25 giving any new medications, not giving any additional

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1 treatments that home health or a nurse would provide.
 2 And they respond in a smaller vehicle. Every
 3 time someone calls 911, two of these may show up and an
 4 ambulance. That's a lot of diesel fuel, it's a lot of
 5 pollution in our environment, it's a lot of wear and tear
 6 on apparatus and on the streets of Salt Lake City, and
 7 that goes out from you and I as taxpayers to fix that kind
 8 of problem every year, and we all pay for the consequences
 9 of too much CO2 emissions.
 10 So these mobile health paramedics would respond
 11 in two fashions: One would be the frequent user program.
 12 These -- they would go out and try to find these people,
 13 as I said, and try to fix whatever problem is going on.
 14 It means taking ownership of some people who are just
 15 slipping through the cracks of society, and then a
 16 dispatch response through the -- this emergency nurse
 17 that's in dispatch who can say it sounds like your runny
 18 nose does not require an ambulance and two fire trucks and
 19 a trip to the emergency department right away. Why don't
 20 we send our mobile health paramedic to come check you out,
 21 see if you're okay to wait for a visit to your primary
 22 care doctor tomorrow.
 23 So that's the kind of response that they would
 24 do as well. They would assess the person and figure out,
 25 make sure they're not sick.

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1 So these are two mobile health paramedics,
 2 Captain Ty Shepard, who's here who's overseeing -- helping
 3 oversee the program, and Josh Diamond, who's another
 4 paramedic visiting these people.
 5 So this goes from a very simple what so called
 6 you call, we haul, that's all, type of model of 911 to a
 7 more complicated one by, as I admit, but one that will
 8 help these patients keep from falling through the cracks
 9 -- cracks further, I think.
 10 So these require partnerships with people.
 11 We're not trying to replace any existing services, but
 12 we're trying to form a nexus with these people that
 13 doesn't exist previously.
 14 Primary care doctors have no idea how often
 15 their patients are calling 911. That information is not
 16 fed back to them in any fashion. So they're -- unless the
 17 patient mentions it to them, they're oblivious to this
 18 information. And they're sometimes surprised when we tell
 19 them about it. But these are the people we've -- we've
 20 been working with and we're hoping to expand this so that
 21 this will be multiple slides and not just one in the
 22 future.
 23 Here's a case study for you. This patient had
 24 cerebral palsy, had a traumatic brain injury, wheelchair
 25 bound, independently living alone and had 22 calls between

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1 January and October of 2013. Most of these calls did not
 2 require transport and had to do with falls at home. So we
 3 sent the in-home -- the mobile health paramedic to their
 4 home to do a kind of needs assessment, a case management
 5 type of thing from our side, and found that most of these
 6 calls resulted from problems with mobility and transfers;
 7 the person just couldn't get in and out of their
 8 wheelchair to the bed or whatever.
 9 And so this community paramedic worked with case
 10 management to arrange for home health, occupational
 11 therapy, and that resulted from two calls a month on
 12 average to zero over the last couple months of the year.
 13 We did have one more call from him recently I just heard,
 14 but we've certainly decreased that frequency of calls and
 15 this -- the financial impact can be estimated from our
 16 restitution cost of just responding on scene to these
 17 calls. And it adds up over time as you can see.
 18 Here's another one. This is a homeless patient
 19 with traumatic brain injury, seizures, frequent calls to
 20 911 by bystanders who would see the patient seize multiple
 21 times a day on the street. Had a history of substance
 22 abuse, 22 calls to 911 over three mon -- over six months.
 23 So we initiated an interdisciplinary review with
 24 the help of the Fourth Street Clinic. We found this
 25 patient had actual insurance and could receive care

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1 through -- through IHC Hospitals and so we established LDS
 2 Hospital as the single receiving center when this patient
 3 needed transport.
 4 In the meantime, we worked with homeless
 5 resources to get a judicial review of this person. And
 6 they determined through Adult Protective Services that
 7 this person shouldn't be living out on the street
 8 unprotected, that they are a danger to themselves and so
 9 was placed in a group home. So he went from living on the
 10 street here to living in a group home and wouldn't have
 11 happened without this type of program. The person -- we'd
 12 still be going on -- on runs to this person. So it went
 13 from four-and-a-half per month to zero.
 14 This is the financial impact that was estimated
 15 from the Fourth Street Clinic. This was a little over
 16 three years. You can see the total cost of caring for
 17 this individual who is slipping through the cracks was
 18 substantial. Now it's about \$40,000 a year to the
 19 taxpayers for the person to live in this group setting.
 20 So this can have a big impact, I think, on the
 21 quality of life for our providers because they could have
 22 the satisfaction of knowing that when they're going on
 23 someone frequently, they can pass that information along
 24 to our mobile health paramedic, that something will be
 25 done and that we will do all that we can to -- to reduce

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1 this.
 2 Before we kind of said, we stood and watched in
 3 horror as these things happened. I think we can make a
 4 difference now. So any questions on that?
 5 ANDY SMITH: What safety measures are in place
 6 for that single responding paramedic if he's walking into
 7 these situations without anyone or --
 8 CLARE BALDWIN: I -- I can answer that. They're
 9 not going to be responding as single resource. They will
 10 be responding together.
 11 ANDY SMITH: Okay.
 12 CLARE BALDWIN: We've thought about that and we
 13 believe that in our environment that we would rather send
 14 two in for that very reason. So they will be going
 15 together. There'll be at least two, if I have to go
 16 along.
 17 JAY DOWNS: Excuse me, what's your name for
 18 the --
 19 ANDY SMITH: Andy Smith.
 20 CLARE BALDWIN: I still am a paramedic, so.
 21 JAY DOWNS: Let's just make sure that we
 22 recognize and get your name and everything for the
 23 recorder. Thank you.
 24 CLARE BALDWIN: Any other questions?
 25 JAY DOWNS: Any other questions or anything else

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1 you want us to bring? I think it's an action on our
 2 agenda for the board to possibly send back down to our
 3 subcommittees to -- to review more for what can be done
 4 more with the state, if that's so what the board decide --
 5 desires to do. We would send it down to the professional
 6 development.
 7 Yes, Chief.
 8 CLARE BALDWIN: I just want to add one more
 9 thing. One of the things with these programs nationwide,
 10 there have been others that have initiated these. The
 11 continued problem of everybody is sustainability. Whether
 12 it -- no matter what it is, it's -- it's us proving to the
 13 hospitals, to the insurance providers, to everyone
 14 involved that the cost savings will be there so that we
 15 can reclaim a share of that cost savings, so a cost share,
 16 if you will, of those savings.
 17 There's some examples around the country where
 18 this is working very well. Fort Worth is one of the --
 19 one of the frontrunners here where they have shown that
 20 this works. And they're using a program with both of
 21 these, both pieces. There are other pieces in the country
 22 that are only doing a mobile health -- by the way we can't
 23 say community paramedic, because it's been copyrighted, so
 24 it's a mobile health paramedic is our program. That's why
 25 that term's being used in MHP. So it's already -- we --

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1 we don't want to have to pay the residuals.
 2 But if -- if -- if we can't, if we can't find a
 3 way to share or -- or to save money, then we're -- we're
 4 kind of looking at it, it's the right thing to do. We
 5 know it's the right thing to do, but that only goes so
 6 far.
 7 So part of our -- part of our pro -- our pilot
 8 program is to prove that sustainability to the Utah
 9 Hospitals Association, to the individual hospital groups
 10 that are participating, as well as to other agencies that
 11 are looking at maybe is this a good idea for them.
 12 There's all that question about, you know, well, we might
 13 lose money in the transport, but we're dealing with
 14 patients that are either low pay or no pay for the most
 15 part anyway in these groups. So we're -- it's a balancing
 16 act and -- and we think it's the right thing to do and the
 17 time is -- is now rather than waiting.
 18 JAY DOWNS: Yeah, Mike.
 19 MIKE MOFFITT: Mike Moffitt. Having been
 20 involved from almost day one with Salt Lake City Fire and
 21 the development of this project, I -- I fully support it,
 22 first of all. Secondly, I don't believe that anything
 23 they're doing really fits the normal mold of pilot project
 24 approval, because they're not doing anything new, they're
 25 not adding more skills. In fact, really using paramedic

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1 skills, they're going to be an evaluation type thing, and
 2 it's pathway management to coin an old term.
 3 I would be supportive of a motion maybe to send
 4 the overall topic to our subcommittees, to just have them
 5 look at that and -- and see if there's anything they need
 6 or the committee ourselves need to do, but I would not
 7 want to place any -- any barriers or delays in front of
 8 Salt Lake City to move forward with this, because I just
 9 don't see -- you know, we're not -- we're not talking RSI
 10 or just, you know, drugs or an expanded role for
 11 paramedics. We're not trying to have them be something
 12 they aren't already.
 13 JAY DOWNS: Jolene?
 14 JOLENE WHITNEY: Just to clarify, too, the
 15 reason it's on the committee under an action item is for
 16 that very reason is for the committee --
 17 MIKE MOFFITT: Oh, I got one right.
 18 JOLENE WHITNEY: -- for the committee to
 19 consider the concept and push it down to the subcommittees
 20 for discussion and so they can talk about any concerns or
 21 issues that might apply with this concept on a statewide
 22 basis and the development of rules. I mean, there's --
 23 it's -- it's seen nationally in a lot of places and it's
 24 -- it's taking hold. We're seeing it now in Utah. We
 25 need to look at it as an EMS community and see how it

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1 fits. And if there are protections that we can have in
 2 place for the providers and for the public, we need to
 3 start having discussions in appropriate forums for that
 4 kind of -- for this concept.
 5 So the committee doesn't have to consider this
 6 proposal as a pilot project, because they're not having
 7 any kind of a waiver or variance for anything that they're
 8 not already doing within their scope of practice. So just
 9 to clarify.
 10 CLARE BALDWIN: I think it's important that we
 11 collaborate, that we're willing to share our information
 12 as we go to help everybody else along the way. And that's
 13 kind of why we're here, is we're going down into new
 14 territory and everyone has a lot of questions. And so I
 15 -- I would agree with -- with Mike that what we are doing
 16 is really not new.
 17 There are some community paramedic programs in
 18 the country that are just short of being P.A.'s. And
 19 we're not looking at that. We don't believe that that --
 20 there's value in us going down that road. So we're --
 21 there may be in the rural setting, but -- but for us there
 22 is not that value. For us, just getting into the home in
 23 that so -- social interaction with the patient is where
 24 it's at and not -- and not adding new skills or new -- new
 25 techniques that -- that mostly it's -- there will be

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1 emphasis with our community paramedics on the mental
 2 health aspect, because most of the patients that we're
 3 dealing with do have that -- that mental health piece
 4 that -- that's not being addressed. And -- and the
 5 overall general training of paramedic's role doesn't cover
 6 mental health the way it should.
 7 JAY DOWNS: So -- so Chief, I would assume then
 8 you'd be willing to have, like, either yourself or one
 9 of -- some of your staff come in and meet with the
 10 committees --
 11 CLARE BALDWIN: Absolutely.
 12 JAY DOWNS: -- subcommittees and introduce them
 13 to the idea and kind of like what you guys have done
 14 already. That way --
 15 CLARE BALDWIN: Yes.
 16 JAY DOWNS: -- it kind of gets to it. They're
 17 -- they're not redoing it, is what I'm trying to say.
 18 CLARE BALDWIN: Correct. Correct. There's
 19 no -- yeah, we're not reinventing the wheel either. We're
 20 -- we're stealing, borrowing from everybody else that's
 21 already laid the ground. Okay?
 22 JAY DOWNS: We don't have to have a vote on
 23 that, we can just make that recommendation to the
 24 subcommittees. With the consensus of the committee.
 25 Good?

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1 CLARE BALDWIN: Thank you.
 2 JAY DOWNS: Okay. So we will take that to the
 3 subcommittees, both of them, the operations and the
 4 professional development to look into that.
 5 ANDY SMITH: Can I ask one more question?
 6 JAY DOWNS: Yeah, sure, go ahead. State your
 7 name again, please.
 8 ANDY SMITH: Andy Smith.
 9 JAY DOWNS: Sorry for that, Andy.
 10 ANDY SMITH: You said there's two different ways
 11 that individuals are identified for this program.
 12 CLARE BALDWIN: Uh-huh.
 13 ANDY SMITH: And either they are dispatched
 14 through the -- the nursing side of it or dispatch a
 15 community paramedic out there?
 16 CLARE BALDWIN: Yes.
 17 ANDY SMITH: Or you've identified frequent
 18 abusers or callers or whatever you want to call them.
 19 CLARE BALDWIN: Correct.
 20 UNKNOWN: Loyal users.
 21 ANDY SMITH: Loyal users. So then your -- your
 22 community paramedics just have a list of folks that they
 23 visit then?
 24 CLARE BALDWIN: Well, in this collaboration with
 25 the hospitals, they are providing us names of people that

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1 are on their list that they need us to go out and visit.
 2 ANDY SMITH: Okay. Okay.
 3 CLARE BALDWIN: So we are working with all the
 4 hospitals in the valley that -- you know, that -- that
 5 have that -- those frequent users that live in Salt Lake
 6 City proper, because right now this program is only Salt
 7 Lake City proper.
 8 ANDY SMITH: Okay.
 9 CLARE BALDWIN: So then we -- we get those names
 10 and we work on those referrals as well, as well as the
 11 referrals that our crews give us. They'll go on a call.
 12 They'll -- for right now because we don't have the ECNS in
 13 place and they'll give us the referrals through -- we have
 14 an Adobe forms, so we get those referrals that way also.
 15 ANDY SMITH: Okay.
 16 BRIAN DALE: So we can meet them before they
 17 have crisis.
 18 JAY DOWNS: Excuse me, sir, what's your name?
 19 BRIAN: Brian Dale, Salt Lake City Fire.
 20 ANDY SMITH: Is there a formal report back to
 21 that referring physician or hospital of the condition of
 22 the patient?
 23 CLARE BALDWIN: Yes.
 24 ANDY SMITH: Okay. All right.
 25 TY SHEPHERD: So that's being -- Ty Shepherd,

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1 Salt Lake City Fire. We usually -- right now so far we're
 2 working with the case managers, not as much the primary
 3 physicians yet -- we're going to start contacting them but
 4 a lot of case management interaction.
 5 JAY DOWNS: I'll have more of this information
 6 coming through the subcommittees. So thank you.
 7 The next item was on a digital, the previous
 8 agenda, and we figured out it wasn't on this one, so we
 9 added it to this one, and that was -- was Tami, North
 10 Sanpete ambulance waiver, is that you?
 11 TAMI GOODIN: Well, it's not -- I'll introduce
 12 Tracy Braithwaite from North Sanpete. North Sanpete is
 13 requesting a paramedic schedule order for the committee
 14 for their consideration for their paramedic application.
 15 I'm going to turn it over to Tracy.
 16 JAY DOWNS: Tracy.
 17 TRACY BRAITHWAITE: Yeah. I'm Tracy
 18 Braithwaite, North Sanpete Ambulance. We've also got
 19 Bryan Bench here with me. We're two of the paramedics
 20 from North Sanpete. What we're requesting is the waiver,
 21 not like -- unlike other agencies have done here recently,
 22 to go ahead and allow us to act as paramedics when we are
 23 available to respond in that capacity.
 24 Our -- our plan is written out. I don't know
 25 how many of you had a chance to read through it. Our plan

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1 was -- is there's five of us that we have. Generally
 2 speaking, we can have one of us on all the time to cover
 3 our three ambulances. We have stations throughout our
 4 area, and that paramedic would respond in a quick response
 5 vehicle to any paramedic level calls as is determined
 6 through dispatch.
 7 So generally we -- we have a paramedic go on
 8 every call, not every call, but we have a paramedic
 9 available most of the time to -- to respond to these
 10 calls, but that paramedic would be alone with an advanced
 11 EMT and an EMT or advanced EMT's depending on how the
 12 ambulance is actually staffed. So we would be a lone
 13 paramedic but we'd -- we'd still -- we could still
 14 function as a paramedic.
 15 JAY DOWNS: So I understand what you are saying
 16 is you'd have them like in a suburban or a truck or
 17 something.
 18 TRACY BRAITHWAITE: Yeah.
 19 JAY DOWNS: And then if it was an appropriate
 20 level of call for a paramedic, that individual would
 21 respond with the advanced EMTs on the ambulance?
 22 TRACY BRAITHWAITE: Yeah, the ambulances are
 23 staffed as is currently under our advanced EMT license and
 24 that they will make no -- continue to be staffed that way,
 25 and the paramedic would just be an additional provider

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1 that is coming on these calls that we require paramedic
 2 level.
 3 JAY DOWNS: Okay. So with five people, you feel
 4 you can staff paramedic, at least one single paramedic on
 5 most calls, unless that paramedic's tied up on another
 6 call, is that what you're saying?
 7 TRACY BRAITHWAITE: Yeah, unless they're -- if
 8 they're on another call, obviously they're tied up, but
 9 generally speaking how our work schedules work, is we all
 10 work different jobs. There's usually at least one of us
 11 around seven days a week.
 12 JAY DOWNS: Okay.
 13 TRACY BRAITHWAITE: That we can manage to get at
 14 least -- maybe -- maybe not all seven days, but maybe at
 15 least five -- five out of seven days a week we would have
 16 a paramedic available to respond.
 17 JAY DOWNS: Committee? What's -- what -- what's
 18 your thoughts? Any questions? You got anything else? Is
 19 that --
 20 TRACY BRAITHWAITE: That's pretty much our plan.
 21 JAY DOWNS: Okay.
 22 TRACY BRAITHWAITE: We group our ambulances
 23 obviously to the paramedic level with the drugs update,
 24 our protocols as necessary. We already have bonders,
 25 defibrillators that are at the paramedic level. So the

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1 cost to us isn't that much, it's just a matter of adding a
 2 few drugs and some airway supplies.
 3 JAY DOWNS: Okay. Anybody got any questions or
 4 concerns for them? Of course, we're not a quorum.
 5 TRACY BRAITHWAITE: Yeah.
 6 JAY DOWNS: I mentioned that several times
 7 earlier. However, the committee can make a recommendation
 8 like we did with the other one; is that correct, Jolene?
 9 JOLENE WHITNEY: Correct.
 10 JERI JOHNSON: Do they have to have a letter
 11 from the government so they're aware of --
 12 TRACY BRAITHWAITE: We -- we -- we are a Special
 13 Service District. We are our own kind of quasi government
 14 agency. So we make our own -- we -- we submit budgets to
 15 the Auditor's office every year. You know, so we operate
 16 independent of any government agency.
 17 JAY DOWNS: I think what Jeri's referring to is
 18 some of the other agencies that we've had them do, is the
 19 support of the communities they serve, that they're --
 20 they're --
 21 JERI JOHNSON: They're knowledgeable.
 22 JAY DOWNS: Yeah. That they're --
 23 TRACY BRAITHWAITE: Our -- our -- our Board of
 24 Directors is made up of representatives from each city.
 25 So each city already kind of has a say in what we're

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1 doing. So that's kind of -- so...
 2 JAY DOWNS: Okay. Tami in the back.
 3 TAMI GOODIN: Just for clarification, the agency
 4 that you require the government support letter, that was
 5 for a current license provider that -- all that
 6 information will come into their -- for their license
 7 application. So right now they're just discussing for the
 8 staffing waiver. So that was a difference between the
 9 two.
 10 JAY DOWNS: Thank you. Okay. Committee?
 11 JERI JOHNSON: It calls in just as the others.
 12 MARK ADAMS: Mark Adams, just one question. Did
 13 the proposal include protocols keeping paramedic drugs and
 14 things safe and secure --
 15 TRACY BRAITHWAITE: Yes.
 16 MARK ADAMS: -- and locked so that there's no
 17 access to them outside of the paramedic?
 18 BRYAN BENCH: Bryan Bench, North Sanpete. We've
 19 both done this together. Yes, everything will be
 20 separate. So we would actually have separate lock boxes
 21 for any narcotics that are paramedic based versus AEMT.
 22 So everything would be completely separate.
 23 JAY DOWNS: Good. Well, we can make a motion to
 24 make a recommendation, am I right? And then we would take
 25 it up at a later date for the final vote, right?

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1 JOLENE WHITNEY: Uh-huh.
 2 JERI JOHNSON: I'll make a motion.
 3 JAY DOWNS: Okay. Motion is?
 4 JERI JOHNSON: To accept --
 5 JAY DOWNS: To approve? To grant it?
 6 JERI JOHNSON: -- to approve their proposal.
 7 JAY DOWNS: Okay.
 8 LYNN YEATES: I'll second.
 9 JAY DOWNS: Seconded by Sheriff. Okay. Any
 10 further discussion on the motion? I see none. Call for a
 11 vote. All in favor say aye.
 12 COLLECTIVE: Aye.
 13 JAY DOWNS: Any opposed? Any abstained? Good.
 14 Okay. Next action. Thank you.
 15 TRACY BRAITHWAITE: I was going to stay up here,
 16 I think I'm next.
 17 JOLENE WHITNEY: He gets to stay.
 18 JAY DOWNS: Are you next?
 19 JOLENE WHITNEY: He's next, yeah. Operations.
 20 JAY DOWNS: Oh, good. There you go, Trace.
 21 You're up next. Wow us and woo us.
 22 TRACY BRAITHWAITE: So the things I have to
 23 report from the Operations Subcommittee is this emergency
 24 vehicle operators rule that's gone into effect. We had
 25 a -- kind of our own little task force that we had kind of

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1 make up this rule. It's gone into effect.
 2 We subsequently decided that there's things --
 3 that the New Rules Task Force that is coming on board
 4 would -- would like to maybe look at taking out, and
 5 that's what we had to strike through here on our stuff.
 6 So as it is written currently, without the strike through,
 7 that's what is in the rule currently. So, but we would
 8 recommend that this new Rules Task Force strike the --
 9 what we have decided to take out, but it's kind of
 10 unnecessary.
 11 JAY DOWNS: Okay. So what you're saying is
 12 you're making a recommendation to be taken back to the
 13 Rules Task Force to strike out what you're asking?
 14 TRACY BRAITHWAITE: Yeah, pretty much.
 15 JAY DOWNS: Okay.
 16 TRACY BRAITHWAITE: Let the Rules Task Force
 17 take it over now 'cause it's base -- it's in rule. So
 18 it's kind of up to the task force now.
 19 JAY DOWNS: Committee agree? Send it back to
 20 the rules?
 21 MARK ADAMS: Agree.
 22 JAY DOWNS: Okay. Okay. Anything else?
 23 TRACY BRAITHWAITE: Nothing else from our
 24 committee, no.
 25 JAY DOWNS: Okay.

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1 TRACY BRAITHWAITE: We would like some, you
 2 know, maybe some more input from the overall, the EMS
 3 committee from you guys on things that we can -- can do
 4 because we can't find ourselves sometimes, not really
 5 having anything to discuss, so.
 6 JAY DOWNS: You want more work to do?
 7 TRACY BRAITHWAITE: We would certainly -- well,
 8 yeah, you know, if we're going to take the time to come up
 9 to these meetings, yeah, I think it's the consensus of our
 10 committee members, let's have something to actually
 11 discuss when we come up here.
 12 JAY DOWNS: Okay.
 13 TRACY BRAITHWAITE: Other than that, I have
 14 nothing else.
 15 JAY DOWNS: Okay. We'll take that under
 16 advisement. Thank you.
 17 The next line item is -- is myself. It was
 18 actually -- Dean was -- Dean York? Yeah, from Provo, he
 19 was -- he is the newly elected chair of the rules
 20 committee.
 21 JOLENE WHITNEY: He's actually the liaison.
 22 JAY DOWNS: Liaison, that's right. Correct.
 23 Let me kind of give you a little history what's
 24 happened with the rules committee. It's kind of like in
 25 statute, there's a rules committee.

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1 So what we did is, as you may recall from the
 2 last year of going through the rules process and different
 3 committees and stuff, so what we did is we were tasked by
 4 this committee to go and make a Rules Task Force and put
 5 it together. And we actually have done that. And we've
 6 had our first meeting, which was in December. Our next
 7 meeting's coming up in January. That Rules Task Force
 8 meets every month.
 9 To kind of give you an idea what we did, is we
 10 went through and we solicited a membership from the
 11 different organizations that EMS interacts with, i.e.,
 12 like, some like the Fire Chief's Association, the EMT
 13 Association, the Police Association -- the Sheriff's
 14 Association, wasn't it?
 15 JOLENE WHITNEY: Uh-huh.
 16 JAY DOWNS: The Utah League of Cities and Towns.
 17 Just a -- there was several other ones that we had to make
 18 up this committee. This committee is made up of all these
 19 different members. And what they do now, is they're
 20 tasked right now going through the rules that were during
 21 the -- the process where we were looking for public
 22 opinion, they're going through those rules that people had
 23 questions on. And that's what the Rules Task Force is
 24 currently working on.
 25 There will be other things that will come down

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1 from this committee or the Bureau for them to work on. I
 2 need to clarify with everybody to understand how that
 3 rules task force works. They are not the -- the end all.
 4 They -- they -- what rules they make, does not make it the
 5 rule. What they do now is they bring it back either
 6 depending on whether it's the Bureau or the EMS committee,
 7 they'll make a recommendation that comes back to either
 8 one of those two agencies. They work for both agencies,
 9 but they don't -- they just make recommendations back.
 10 But it's the Bureau rule or if it's an EMS committee rule,
 11 they bring those information back to those two committees.
 12 Just so everybody knows, we made this -- this
 13 really -- emphasize it to those people who are on the
 14 rules committee, that they represent the discipline that
 15 they've been chosen from. They do not represent the
 16 agency that they work for. Okay?
 17 So if you have somebody from the sheriff's
 18 office and the Sheriff's Association, they don't
 19 represent, like -- like, they wouldn't come in and
 20 represent Box Elder County. They represent the Sheriff's
 21 Association for the State of Utah as a whole. And by
 22 doing that, we're looking at the rules as a state of Utah
 23 rules and not necessarily agency.
 24 And I think that was some of the things that was
 25 discussed on how we can make the rules committee better.

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1 So that's one of the things that we are working on within
 2 the rules committee.
 3 But it is up and going. Next meeting is on the
 4 22nd, I believe, Susan, 22nd. So it's an open meeting.
 5 Anybody wants to come and attend. They've -- they've
 6 voted to go four-hour meetings with a break in the middle.
 7 So they plan on working hard on it. So it's up and going.
 8 That's all I have to report on that.
 9 Grants. The next line item is grants and Allan.
 10 ALLAN LIU: That was fast, Jay.
 11 JAY DOWNS: Good. Make yours.
 12 ALLAN LIU: I'm Allan Liu, financial analyst for
 13 the Bureau. There's three items on the table. I don't
 14 know if the committee has received. There is a
 15 subcommittee meeting that we had on November 20th. It was
 16 an emergency one. What happened is we had audits of
 17 various EMS agencies, and there was an audit finding with
 18 Carbon County in their competitive grants.
 19 They purchased a training mannequin for \$800.
 20 They submitted us for reimbursement, and they get
 21 reimbursed 50 percent. That's the matching portion they
 22 have to pay.
 23 We processed that. With the audit -- auditor,
 24 they noticed that the payment, the actual cost of the
 25 mannequin was 499. So in turn the Bureau of EMS has paid

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1 with grant funds more than they should have.
 2 From -- it looks like it was an unintentional
 3 clerical error based on what their finance department pays
 4 and what they received. And very oftentimes when people
 5 are purchasing, there's a discount that's not noticed or
 6 applied.
 7 So, you know, the grant subcommittee had to make
 8 a recommendation on what to do moving forward. They
 9 recommend auditing Carbon County for fiscal year '13 and
 10 fiscal year '14. This audit thing that the auditors found
 11 was for fiscal '12. So they want to audit the grants for
 12 Carbon for fiscal '13 and '14. And that's what you need
 13 to vote and make a recommendation on.
 14 I -- during that time, I had a little heartburn
 15 because fiscal year '14, we're currently in fiscal year
 16 '14, and financially we don't audit things in the future.
 17 That just doesn't work. So my recommendation is to change
 18 it a little bit, is to audit fiscal year '11 and audit
 19 fiscal year '13, not fiscal '14.
 20 JERI JOHNSON: Makes sense.
 21 JAY DOWNS: Okay. I guess we're back to the
 22 recommendation of recommendation.
 23 JOLENE WHITNEY: Uh-huh.
 24 JAY DOWNS: This is awkward.
 25 JERI JOHNSON: It is. I accept your

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1 recommendation.
 2 JAY DOWNS: That Allan presented for us?
 3 JERI JOHNSON: Yes.
 4 JAY DOWNS: You want to form that in a motion?
 5 JERI JOHNSON: I'd like to make a motion to
 6 accept Allan's recommendations for the audit, fiscal year
 7 '11 and '13.
 8 JAY DOWNS: Seconded?
 9 LYNN YEATES: I'll second.
 10 JAY DOWNS: Sheriff, second. Okay. So any
 11 discussion on that?
 12 So basically what we're doing is we're making a
 13 recommendation that the -- the audit, the years '11 and
 14 '13, right, and then we're going to make a recommendation
 15 that we accept it as an action item next time or vote on
 16 it the next time; is that correct? Okay. All in favor
 17 say aye.
 18 COLLECTIVE: Aye.
 19 JAY DOWNS: Opposed? None. Any abstained?
 20 Nobody. Okay. Good.
 21 ALLAN LIU: The last item are two things, is the
 22 acceptance of the competitive grant guidelines and per
 23 capita grant guidelines. There are just tweaks to dates
 24 for deadlines. The major changes, they're really tiny,
 25 is, like, competitive. For example, under computers,

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1 we're not reimbursing for projectors anymore. Projectors
 2 have come down in price, and they feel that that's not
 3 something awarded in the grants.
 4 Another item is the deadlines. We're changing
 5 the deadlines to have all receipts and things submitted to
 6 our office so we can process by end of the fiscal year by
 7 May 15th. That bumps it up several weeks. However, for
 8 processing and things, it's just necessary for us to do
 9 that so everybody gets reimbursed instead of getting
 10 caught without being reimbursed.
 11 JOLENE WHITNEY: Well --
 12 JAY DOWNS: Yeah, Jolene.
 13 JOLENE WHITNEY: -- one of the -- one of the
 14 reasons for bumping it up also was the grants committee
 15 needs to know how much money is left in the -- in the pot.
 16 So the sooner they can know that, the sooner they can
 17 determine the allocation for the next year. So that's why
 18 it was, you know, moved up just a smidge to get all that
 19 information so they could make a better decision about the
 20 available grants for the next year.
 21 ALLAN LIU: And we will continue to email EMS
 22 agency reminders to try to submit things early, because
 23 sometimes those email reminders help to get things
 24 processed and nothing's just a lax simply because of the
 25 volume of grants we get at the end of the year.

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1 JAY DOWNS: Anything else? Thanks, Allan.
 2 Anybody got anything else for Allan for the
 3 grants committee? Okay. I guess that's it.
 4 ALLAN LIU: I think you need a motion to -- to
 5 request voting on -- on -- on these guidelines.
 6 JAY DOWNS: On the guidelines. So make a
 7 recommendation to the recommendation again. Okay. This
 8 is incredibly awkward.
 9 JERI JOHNSON: It's too much to say.
 10 JAY DOWNS: Make a recommendation, we don't have
 11 a quorum. So I'll entertain a motion. Anybody make a
 12 motion? Mark?
 13 MARK ADAMS: So move that we adopt the proposed
 14 guidelines from the grants committee.
 15 JAY DOWNS: Okay. Do I have a motion, a second?
 16 MIKE MOFFITT: Second.
 17 JAY DOWNS: That's Mike, second. Okay. Any --
 18 any discussion on the motion? Seeing none, I'll call for
 19 a vote. All in favor say aye.
 20 COLLECTIVE: Aye.
 21 JAY DOWNS: Any opposed? Any abstained? Okay.
 22 Good. We'll make a recommendation.
 23 Okay. Informational items. Data on medical
 24 usage. Richard Thomas.
 25 RICHARD THOMAS: Well, thank you all very much

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1 for giving me a few minutes to talk about a project that
 2 we've been working on in the EMSC Advisory Committee.
 3 By way of introduction, my name is Richard
 4 Thomas. I'm the team leader for the ED pharmacists at
 5 Primary Children's.
 6 This all started actually back in 1979 when I
 7 had the privilege of being the first ED pharmacist in
 8 California working at the University Hospital in Orange
 9 County. And the hospital had the contract for paramedic
 10 training. And so I very quickly became involved in EMS.
 11 I was on the county EMS committee, as well as on the drug
 12 and equipment committee, which basically did all the drugs
 13 and protocols for the Orange County paramedic system. And
 14 I chaired that committee for a number of years.
 15 After 12 years, I moved to Arizona where I was
 16 quickly recruited to beyond the state EMS paramedic drug
 17 and equipment committee, and I chaired that for a number
 18 of years. I spent two years on the EMSC Advisory
 19 Committee in Arizona and I've been on the EMSC Advisory
 20 Committee here for five years. That's almost 30 years of
 21 involvement in pre-hospital care. And almost continually
 22 for those 30 years, I've been frustrated by the inability
 23 to answer some very simple basic questions. How are drugs
 24 used in the pre-hospital care setting? And do they make a
 25 difference? What are the outcomes of using those drugs?

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1 Well, obviously we'd love to have a double-blind
 2 randomized controlled study to answer those kind of
 3 questions, but we don't have those kind of resources. I
 4 was very pleased and delighted when I got here to Utah and
 5 learned about the Polaris database that we have actually,
 6 a tool that can start us in that direction.
 7 And so a couple of years ago I asked if we
 8 couldn't review the use of pre-hospital drugs for
 9 pediatric patients. And so we were given -- I was given a
 10 database to do that with, and then subsequently we looked
 11 at a couple of years later. So we looked at a period from
 12 2007 to 2010. Those of you that are familiar with how
 13 things have evolved in terms of electronic medical records
 14 know that in 2007 not all the units were reporting. And
 15 so consequently we decided to take a rather large amount
 16 of data, 27,000 records, and then in 2012 we did just one
 17 year's worth of data. As you can see a substantial
 18 number.
 19 So in order to be included in the analysis, the
 20 interaction had to include at least one drug that was
 21 administered in the pre-hospital setting. When you looked
 22 at those numbers, you very quickly began to realize that
 23 the vast majority of those patients were either getting
 24 oxygen or normal saline. And so we eliminated those out
 25 of the analysis. We also eliminated any drugs that were

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1 started in a hospital and were just used basically -- were
 2 reported during transport.
 3 We ended up with a list of 30 drugs. And then
 4 what we did is, we tabulated the drugs based upon route of
 5 expose -- route of administration and on outcome.
 6 So hopefully you picked up these two rather
 7 small printed spreadsheets which are on the back table.
 8 The white one basically talks about routes of exposure and
 9 the purple one talks about outcomes.
 10 So when we look at these drugs, we kind of
 11 grouped them into pharmacologic or therapeutic categories.
 12 We have basically some oral analgesic, antipyretics with
 13 Acetaminophen and Ibuprofen. We had some IV analgesics,
 14 which are all opiates, fentanyl, meperidine and morphine.
 15 We have a couple of what I loosely use this term anecdote,
 16 but basically activated charcoal and naloxone,
 17 antiemetics, ondansetron, promethazine; drugs for
 18 seizures, lorazepam, midazolam; an antihistamine, even
 19 though promethazine is an antihistamine, it's not usually
 20 used that way. Diphenhydramine is usually the agent of
 21 choice for that. One antipsychotic, a variety of
 22 different cardiovascular agents, adenosine, dopamine,
 23 epinephrine, nitroglycerine, et cetera; some glycemic
 24 agents, glucagon and dextrose; a couple of respiratory
 25 drugs for inhalation, albuterol and ipratropium. And then

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1 RSI agents, Atomadig, sudsonel and vecuronium.
 2 So what are the drugs that are given to kids?
 3 Well, you could probably have guessed this, but it's nice
 4 to have some actual data to support what was your guess.
 5 So we can see that there are two drugs, morphine
 6 and fentanyl, that are in the top three. So one of the
 7 concerns that we certainly should all have is control of
 8 pain in pediatric patients. And it looks like we're
 9 utilizing two of these drugs in a -- in a very similar
 10 way.
 11 It's interesting, however, to see the shift in
 12 the use of morphine and fentanyl. Fentanyl has a much
 13 more rapid onset of action. It has a shorter duration of
 14 action. It probably, at least in some studies, is a --
 15 the drug of choice for orthopedic injuries. And what
 16 we're certainly seeing is a drop here from this first
 17 period versus the second of about 5 percent, whereas with
 18 fentanyl we're seeing an almost compensatory or equivalent
 19 increase in its use. So that -- that's an interesting
 20 trend to look at.
 21 We see that albuterol is con -- is frequently
 22 used. It's the second most frequently used drug.
 23 Epinephrine, ondansetron and midazolam, again
 24 you can see what the percentages are, and they don't vary
 25 a lot. Although, again, you can see ondansetron here has

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1 gone up significantly in its use, over just this five-year
 2 time period.
 3 HALLIE KELLER: Richard, is that inhaled
 4 epinephrine?
 5 RICHARD THOMAS: That is all forms of
 6 epinephrine.
 7 HALLIE KELLER: All forms.
 8 RICHARD THOMAS: All forms of epinephrine. And
 9 if you look on the sheet where it shows routes of exposure
 10 -- routes of administration, you can see all the different
 11 types of ways in which epinephrine is being administered
 12 in a pre-hospital setting.
 13 Now outcomes. I cannot find anywhere in any of
 14 the literature -- excuse me, any of the documentation that
 15 I have about Polaris and NEMSIS as to exactly what these
 16 defin -- what the definitions of these things are. I have
 17 to assume that when a medic is filling out a report run
 18 and they get to the field that asks the question, what was
 19 the outcome, there's a little bit of subjective decision
 20 making going on here.
 21 So improved, unchanged, worse, those are
 22 probably the three that we are most interested in. The
 23 good thing is, is that if you look at worse, that is a
 24 very rare outcome.
 25 On the other hand, we see what seems to be an

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1 increasing improvement in the outcome of patients who are
 2 receiving pre-hospital outcomes. Again, you have to be
 3 very careful when you look at definitions and understand
 4 the subjectivity of this database. But it looks like for
 5 the most part, at least almost two-thirds of the time when
 6 we give a drug, we're getting some kind of observable
 7 benefit in pre-hospital care.
 8 Now it would be really nice to better define
 9 what that is for the different drugs and their uses, but
 10 at least now we have a tool when we begin to look at that.
 11 Now, I have to frankly say that these are a
 12 little bit confusing as to when a medic would code the
 13 response to a medication using one of these terms: Not
 14 applicable, not available, not known, not recorded, not
 15 reporting. It would be interesting to see how those are
 16 all used.
 17 The good thing is that they're not used an awful
 18 lot, maybe one out of every five cases. This area right
 19 here obviously speaks to the QA of the process. At least
 20 when I get the data, if -- if it doesn't have any one of
 21 those, and it's just completely blank, I have to assume
 22 that no information was ever entered. So it would really
 23 be nice to get these numbers much lower and having at
 24 least something up here that would be useful to us.
 25 So how can we use this data? Well, I'm going --

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1 whatever I say, first of all, is from Richard Thomas.
 2 This is not IHC speaking, this is not Primary Children's
 3 speaking, but I'm going to show you three very quick
 4 examples that might be a way to utilize this data.
 5 So the first question is: How's fentanyl being
 6 used? Well, 81 percent of the time when fentanyl is being
 7 given, it's being given IV. But we know it can also be
 8 given intranasally. So how well since we introduced the
 9 guidelines almost five years ago for using fentanyl
 10 intranasally is it being used?
 11 Well, in the first study period it was used 13
 12 times. In 2012, it was used 16 times. That would
 13 probably suggest an under utilization of this very simple
 14 and effective route for delivering fentanyl, particularly
 15 in kids where it is difficult to establish an IV.
 16 Why aren't we using more intranasal fentanyl?
 17 Well, you'll have to be the ones to answer that question.
 18 But it would suggest that maybe we need to review our
 19 local protocols for how we're using it and look at our
 20 education for our medics.
 21 Another one would be, we've got two antiemetics
 22 that are on our -- on our formula here. We got
 23 ondansetron or Zofran and promethazine or Phenergan. How
 24 are those being used?
 25 Well, we clearly saw earlier in the list of the

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1 drugs that we're seeing an increasing use of ondansetron.
 2 Are we seeing a decreased use of promethazine and
 3 reciprocate -- as a reciprocal? Well, let's see.
 4 Ondansetron, 442 times in this almost three-year
 5 period. In one year it was almost 580 times.
 6 Consequently, promethazine has now gone from 61 times down
 7 to 28 times. Twenty-eight times is not very often to
 8 maintain a drug on a paramedic formular.
 9 And so one could ask or make the recommendation
 10 why don't we -- Peter.
 11 DR. PETER TAILLAC: Is this peds only, Richard?
 12 RICHARD THOMAS: This is peds only.
 13 DR. PETER TAILLAC: Gotcha. Okay. Because it's
 14 used for adults as well?
 15 RICHARD THOMAS: Yes. Absolutely. And, you
 16 know, when you look at a paramedic formulary, and I've
 17 spent, as you can tell, a lot of years discussing how
 18 drugs are -- are -- get on those lists, you have to,
 19 again, have a balance between what makes sense
 20 pharmacologically, what are the medical -- what are the
 21 preferences of medical control, what they're comfortable
 22 with and so forth.
 23 So this is just pediatrics. And again, this is
 24 Richard Thomas speaking, and you can attribute these only
 25 to me. But it would potentially suggest that maybe you

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1 can get rid of promethazine all together for something
 2 that is used so, so infrequently, at least in pediatrics.
 3 Now the same kind of analysis can easily be done in adults
 4 as well.
 5 And last but not least, let's look at our two
 6 anti -- oral antipyretic, anti -- or analgesic agents. We
 7 have Motrin or Ibuprofen and Acetaminophen. Now, again,
 8 you have to be careful in analyzing -- looking at this
 9 data, but it is very interesting that when you compare
 10 Acetaminophen in this first time period, it was improved
 11 42 percent. The second time period it was 43 percent,
 12 compared to 60 percent for Ibuprofen and 64 percent in the
 13 second time period. Do you really need two oral
 14 antipyretic oral analgesics? Again, a question that needs
 15 probably further research and further evaluation.
 16 So there are a number of these kind of questions
 17 that we now have the ability to analyze this data and you
 18 start to address those issues. Clearly, they need further
 19 study in some cases. This can't be the beginning and end
 20 of our analysis, but the data is there. I would highly
 21 recommend that if someone isn't doing this for adults,
 22 that we begin to do that, because I think there is much to
 23 be gained from it. And if all it does is raise more
 24 questions and cause us to be more accurate in our
 25 documentation, and raise more questions about how we can

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1 better capture the real outcomes, it will only make us
 2 better in our delivery pre-hospital care to our patients.
 3 Any questions? All right.
 4 JAY DOWNS: Thank you. That was very
 5 informational. Good information.
 6 Professional development EMR testing and
 7 national registry. Dennis.
 8 DENNIS BANG: I'll make mine quick. Dennis
 9 Bang, Bureau of EMS. Ours is just kind of an update. We
 10 -- when you guys sent us back to look at the EMR testing
 11 with National Registry, we had our committee look at that,
 12 think about it, talk about it, we discussed it for quite a
 13 bit. They felt like it was better to leave EMR with the
 14 Bureau rather go with -- with National Registry due to the
 15 -- it would be -- it would be more costly for -- for them
 16 to do that. And we felt we're struggling with it now.
 17 We're not getting that many courses and we're trying to
 18 build that program rather than kill it. We feel like that
 19 one actually would be a negative rather than a positive to
 20 do that. We are going to go ahead with the AEMT in July,
 21 and send that over to the National Registry, but we want
 22 to keep EMR with National Registry -- or not with National
 23 Registry.
 24 The other item we had was an update for the
 25 transition from the AEMT. We had at the beginning of this

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1 when we started the transition, we had 3,500 EMT's in the
 2 state. Yesterday when I looked, we had 461 that had not
 3 done the transition that were still certified. So those
 4 actually became -- as of December 1, they became EMTs. So
 5 we have basically 561 that went back to becoming an EMT.
 6 Now we did -- we tried to give them every
 7 opportunity to make that switch because you know how they
 8 are. They -- they either didn't hear about it or even
 9 though it's been going on for a year. So we have made it
 10 still an option for them. They can't take the short
 11 transition testing any longer, but they can come back in,
 12 take the 150 question AEMT test, redo all their --
 13 everything else, and still pick up that AEMT certification
 14 until the end of their certification date. So they won't
 15 be able to carry it on forever, but up until the end of
 16 their certification period, they can still pick up that
 17 AEMT if they want to do that. We figure that's every
 18 opportunity that we can have to give to them to be able to
 19 do that.
 20 One other thing, then, we have, just to let you
 21 know how many AEMTs we now have in the state, we have
 22 3,053 AEMTs now. So we -- we feel pretty good about that.
 23 We feel like the transition went pretty flawlessly.
 24 Paul came to me not too long ago and said he had
 25 only one complaint from people on it, which I thought was

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1 good, and I knew he was going to get that one, because I
 2 sent it to him. So we really felt really, really pretty
 3 good about that, when there's some of the states that
 4 haven't even hardly started it and very few have even
 5 completed it. So we feel actually really good about that.
 6 Any other questions? Okay. Thank you.
 7 JAY DOWNS: Thanks, Dennis. Okay. The next on
 8 the agenda is Dr. Taillac. State EMS guidelines, protocol
 9 guidelines.
 10 DR. PETER TAILLAC: I don't probably have too
 11 much new news. We did launch officially and put on the
 12 website the Utah EMS protocol guidelines is the official
 13 word. It's formatted like it could be like -- like they
 14 are, protocols, so if an agency wanted to just adopt them
 15 and put their name at the top, they could do so. But the
 16 intent is for them to be guidelines for agencies to
 17 utilize or to emulate or to adjust such that it meets the
 18 needs of their agency specifically. Comments are welcome.
 19 They will be updated on a regular basis at a minimum
 20 every two years and then republished. We're kind of proud
 21 of them. I've gotten very good feedback.
 22 I'd like to, again, thank publicly Dr. Mark Bear
 23 and the rest of the committee, some of whom are on this
 24 committee here, for helping us with it and I think turning
 25 out a pretty good product. So I'm real interested in

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1 feedback. So please let me know. And feel free to use
 2 them. If you want them, they're all yours.
 3 Yes, sir.
 4 **ANDY SMITH:** Are they in Word format so I can
 5 literally just copy and paste my information on them?
 6 **DR. PETER TAILLAC:** Great question. So what
 7 I've asked, just to sort of do version control, is if
 8 you'd like them in Word format, I will send them to you
 9 specifically. I don't want to publish them on the web in
 10 Word format, though.
 11 **ANDY SMITH:** Okay.
 12 **DR. PETER TAILLAC:** Does that make sense? So
 13 send me an email if you haven't sent me one. And when you
 14 do that, then if you're going to change them at all, you
 15 know, just be sure you put your name on it so it
 16 doesn't -- be on the original, if you will.
 17 **JAY DOWNS:** Jolene.
 18 **JOLENE WHITNEY:** I just wanted to mention, too,
 19 that the medical directors meeting we're having in --
 20 **ALLAN LIU:** March.
 21 **JOLENE WHITNEY:** -- March 17th in Springdale, if
 22 I remember right. So just to encourage the agencies to
 23 get their medical directors to attend.
 24 **DR. PETER TAILLAC:** Yeah, if you want -- we're
 25 going to have our annual medical directors workshop

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1 March 17th, which is a benefit to them because it's great
 2 information in collegiality. It will be in Springdale.
 3 The date was changed, and I haven't actually sent it out
 4 to the docs yet. It just changed the other day from
 5 April 7th to March 17th because of conflicts in the
 6 calendar.
 7 **JOLENE WHITNEY:** What time?
 8 **DR. PETER TAILLAC:** All day. So it will start
 9 at 8 o'clock. We'll be done by two or three. We will pay
 10 the docs to travel and give them housing the night before
 11 at the Zion Inn, I think, right, Allan?
 12 **ALLAN LIU:** Zion Park Inn.
 13 **DR. PETER TAILLAC:** Zion Park Inn. So they are
 14 welcome to make it a weekend if they want or just go to
 15 the meeting. So please encourage your docs to come. It's
 16 a good meeting and it does also count for their annual
 17 every four-year required updates to stay certified by the
 18 way.
 19 **JAY DOWNS:** Good. Thank you.
 20 **DR. PETER TAILLAC:** We're working on some CME
 21 for it. I don't know if we'll pull it off for this year.
 22 I would love to.
 23 **JAY DOWNS:** Another informational item, the
 24 strategic planning retreat. Whitney?
 25 **WHITNEY LEVANO:** Yes, I'm Whitney Levano, with

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1 the Bureau of EMS. And 2014 is going to be a strategic
 2 planning year. In 2015, we'll be launching a new
 3 five-year strategic plan. So the basic discussion for
 4 this year, and for this committee specifically, is going
 5 forward what do we want the EMS system in Utah to look
 6 like the next five years? And specifically what do we
 7 want the priorities of this committee to be for the next
 8 five years? So we want to have that discussion. We are
 9 looking at having a retreat, kind of a half day thing to
 10 -- to discuss these issues. The proposed date for that is
 11 March 24th -- 25.
 12 **JOLENE WHITNEY:** Twenty-five.
 13 **WHITNEY LEVANO:** March 25. It's a Tuesday, kind
 14 of half day in the morning. And so we'd like to get that
 15 on your agenda or on your calendars now. And if you have
 16 any objections or any conflicts, we'd like to know about
 17 that. So hopefully we can get a quorum there. But
 18 between now and then take some time to think about what --
 19 what you think for our EMS system, and to hear from the
 20 people that you represent on this committee as well.
 21 The second thing I wanted to mention also is
 22 we've been conducting a statewide assessment of EMS
 23 agencies. It's basically a survey asking some questions
 24 about online and offline medical direction, a few optional
 25 questions about child safety restraints in ambulances and

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1 preferred airway devices. You may have seen this on the
 2 front table. You can pick one up. All these smiley faces
 3 of the 116 EMS agencies in our state, we've had 75 percent
 4 complete the assessment already. So we're very pleased
 5 and thank you to all of you who completed it. There's a
 6 handful that we're going to follow up with and they're all
 7 listed on here with the contact.
 8 If you do have one of these sheets and you have
 9 a chance, take a look through the contact list. I'm
 10 finding the ones that haven't filled it out, I generally
 11 have the wrong contact, that person hasn't worked there in
 12 two years, or I've been sending something to the wrong
 13 address. So if you know these people and they're not the
 14 right contacts for these agencies, let me know. If you
 15 know these people and they are the right contacts and you
 16 know them well enough to talk to them, feel free to tell
 17 them that this is an important survey and we'd love for
 18 them to fill it out. If you are one of these people,
 19 come talk to me and we'll get the survey done for you.
 20 So again, there's little less than 30 left that
 21 need to complete this survey and we have a couple weeks.
 22 So, yeah, any questions? Okay. Thank you.
 23 **JAY DOWNS:** Okay. Last informational item.
 24 Tammy, EMS week.
 25 **TAMI GOODIN:** Yes, we wanted you to know the EMS

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1 awards ceremony for July 9th to coincide with the EMS
 2 Committee so it's helpful to have them both together. So
 3 we'll have the nomination forms online by the end of this,
 4 hopefully next week, but no later by the end of January.
 5 So we just look forward to everybody submitting their
 6 nominations. We have nominations for individual and
 7 incident of the year. So just to let you know that's when
 8 we'll have our award ceremony.
 9 Can I ask one question for clarification
 10 regarding North Sanpete? For the North Sanpete, what
 11 direction do they go? Can they apply now for their
 12 application or do they wait?
 13 HALLIE KELLER: They still have to wait for
 14 approval.
 15 JAY DOWNS: Jolene.
 16 JOLENE WHITNEY: We'll be able to get the
 17 recommendations from the committee today out to the other
 18 committee members that were not present for their input.
 19 If they vote favorably for those --
 20 TAMI GOODIN: Okay.
 21 JOLENE WHITNEY: -- then they can move forward.
 22 TAMI GOODIN: Okay. Thank you.
 23 JAY DOWNS: We got that information during the
 24 meeting. We're efficient up here.
 25 Anyway, other than that, next meeting is

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1 April 9th at 1 p.m. here in this area. Otherwise, we'll
 2 look for an adjournment. Motion?
 3 MIKE MOFFITT: Motion to adjourn.
 4 JAY DOWNS: Okay. Second.
 5 LYNN YEATES: Recommendation to adjourn.
 6 JAY DOWNS: Recommendation to adjourn. We are
 7 adjourned. Thank you everybody.
 8 (Meeting adjourned at 3:00 p.m.)
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C E R T I F I C A T E

STATE OF UTAH)
)
 COUNTY OF UTAH)

This is to certify that the foregoing proceedings were taken before me, Susan S. Sprouse, a Certified Shorthand Reporter in and for the State of Utah, residing in Salt Lake County, Utah;

That the proceedings were reported by me in stenotype, and thereafter caused by me to be transcribed into printed form, and that a true and correct transcription of said testimony so taken and transcribed is set forth in the foregoing pages, inclusive.

DATED this 22 day of January, 2014.

 SUSAN S. SPROUSE, RPR, CSR
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(Pages 97 to 99)

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