WEBVTT

NOTE duration:"01:08:03.4600000"

NOTE recognizability:0.846

NOTE language:en-us

NOTE Confidence: 0.923249985

00:00:22.240 --> 00:00:24.288 Hi everyone, good to see so many people.

NOTE Confidence: 0.768989222857143

00:00:59.630 --> 00:01:01.177 It's a minute or two after Cyril.

NOTE Confidence: 0.874192625

00:01:01.190 --> 00:01:02.050 You're ready to go.

NOTE Confidence: 0.826122286

00:01:05.360 --> 00:01:07.340 Yeah, I I am. Thanks.

NOTE Confidence: 0.826122286

00:01:07.340 --> 00:01:10.580 Thanks everyone for for coming.

NOTE Confidence: 0.826122286

00:01:10.580 --> 00:01:12.332 Actually, I'm going to.

NOTE Confidence: 0.826122286

00:01:12.332 --> 00:01:14.960 Have most of the talking done

NOTE Confidence: 0.826122286

00:01:15.045 --> 00:01:17.810 by Shariful Syed Sharif is a.

NOTE Confidence: 0.719258558333333

00:01:19.880 --> 00:01:21.704 The research fellow.

NOTE Confidence: 0.719258558333333

00:01:21.704 --> 00:01:26.870 In our lab. And he has been.

NOTE Confidence: 0.719258558333333

00:01:26.870 --> 00:01:30.468 He has really worked closely with me.

NOTE Confidence: 0.719258558333333

00:01:30.470 --> 00:01:33.067 In doing this study and so I'm

NOTE Confidence: 0.719258558333333

00:01:33.067 --> 00:01:35.711 going to hand it over to him and

NOTE Confidence: 0.719258558333333

00:01:35.711 --> 00:01:37.890 I may interject every now and

NOTE Confidence: 0.719258558333333

00:01:37.890 --> 00:01:39.711 then just add a few details.

NOTE Confidence: 0.719258558333333

00:01:39.711 --> 00:01:40.953 So should we take it away?

NOTE Confidence: 0.82117255

00:01:50.540 --> 00:01:54.330 Hi everyone. My screen.

NOTE Confidence: 0.859236944

00:01:56.760 --> 00:01:57.780 Can you share your screen?

NOTE Confidence: 0.81935513

00:02:00.750 --> 00:02:01.520 Yes.

NOTE Confidence: 0.9351113

00:02:04.520 --> 00:02:05.390 OK,

NOTE Confidence: 0.875694222

00:02:06.820 --> 00:02:10.140 OK. Can we see this? Looks good.

NOTE Confidence: 0.875694222

00:02:10.140 --> 00:02:13.584 OK. All right, I'll begin.

NOTE Confidence: 0.875694222

00:02:13.584 --> 00:02:15.712 Hello everyone. So I'm sheriff.

NOTE Confidence: 0.875694222

00:02:15.712 --> 00:02:18.680 Nice to thank you all for coming

NOTE Confidence: 0.875694222

00:02:18.772 --> 00:02:21.067 and listening to me today.

NOTE Confidence: 0.875694222

00:02:21.070 --> 00:02:23.974 So today I'm going to present to

NOTE Confidence: 0.875694222

00:02:23.974 --> 00:02:26.476 you the results from our exploratory

NOTE Confidence: 0.875694222

00:02:26.476 --> 00:02:29.140 study of the dose related safety,

NOTE Confidence: 0.875694222

00:02:29.140 --> 00:02:32.260 tolerability and efficacy of

NOTE Confidence: 0.875694222

00:02:32.260 --> 00:02:34.363 Dimethyltryptamine DMT in healthy

NOTE Confidence: 0.875694222

00:02:34.363 --> 00:02:36.568 volunteers and major depressive disorder.

NOTE Confidence: 0.772492442222222

00:02:40.580 --> 00:02:44.570 So, so why DMT so to start

NOTE Confidence: 0.772492442222222

00:02:44.570 --> 00:02:46.250 with context? Because I.

NOTE Confidence: 0.703508133333333

00:02:48.270 --> 00:02:48.978 Does the time

NOTE Confidence: 0.779810362727273

00:02:48.990 --> 00:02:50.628 to get in and get away sign

NOTE Confidence: 0.779810362727273

00:02:50.628 --> 00:02:54.790 and tribe and all, I think.

NOTE Confidence: 0.880489668

00:02:54.790 --> 00:02:57.890 So circumstances being right now,

NOTE Confidence: 0.880489668

00:02:57.890 --> 00:03:00.458 silybin LSD more so.

NOTE Confidence: 0.880489668

00:03:00.458 --> 00:03:03.668 Psilocybin is the main psychedelic

NOTE Confidence: 0.880489668

00:03:03.668 --> 00:03:08.239 drug being used and to treat

NOTE Confidence: 0.880489668

00:03:08.239 --> 00:03:09.767 neuropsychiatric diseases.

NOTE Confidence: 0.880489668

00:03:09.770 --> 00:03:13.781 It raises some concerns in terms of

NOTE Confidence: 0.880489668

00:03:13.781 --> 00:03:16.361 implementation and sustainability as a

NOTE Confidence: 0.880489668

00:03:16.361 --> 00:03:19.585 potential treatment option if the goal

NOTE Confidence: 0.880489668

00:03:19.585 --> 00:03:22.496 is to expand treatments and provide

NOTE Confidence: 0.880489668

00:03:22.496 --> 00:03:25.310 them to as many people as possible.

NOTE Confidence: 0.880489668

00:03:25.310 --> 00:03:28.100 And and so you know what it has to do

NOTE Confidence: 0.880489668

00:03:28.183 --> 00:03:30.979 with that is first the administration

NOTE Confidence: 0.880489668

00:03:30.980 --> 00:03:33.200 psilocybin is usually given orally.

NOTE Confidence: 0.880489668

00:03:33.200 --> 00:03:35.760 I did help with the our SILYBIN trial

NOTE Confidence: 0.880489668

00:03:35.760 --> 00:03:38.498 with the doctor slower doctor Desouza.

NOTE Confidence: 0.880489668

00:03:38.500 --> 00:03:40.980 So is able to kind of experience you

NOTE Confidence: 0.880489668

00:03:40.980 --> 00:03:43.039 know first hand what the silybin

NOTE Confidence: 0.880489668

00:03:43.039 --> 00:03:45.097 effects were like and you know

NOTE Confidence: 0.880489668

00:03:45.163 --> 00:03:47.144 it's a very slow onset takes an

NOTE Confidence: 0.880489668

00:03:47.144 --> 00:03:50.195 hour to get to peak and you know

NOTE Confidence: 0.880489668

00:03:50.195 --> 00:03:52.390 affects Slash report 6 hours.

NOTE Confidence: 0.880489668

00:03:52.390 --> 00:03:54.326 Absorption is naturally variable.

NOTE Confidence: 0.880489668

00:03:54.326 --> 00:03:56.746 And in terms of pharmacodynamics,

NOTE Confidence: 0.880489668

00:03:56.750 --> 00:03:58.370 you know, the psychedelic effects,

NOTE Confidence: 0.880489668

00:03:58.370 --> 00:04:00.045 you know they're very potent

NOTE Confidence: 0.880489668

00:04:00.045 --> 00:04:01.385 and and and they,

NOTE Confidence: 0.880489668

00:04:01.390 --> 00:04:03.598 they sustained for quite some time.

NOTE Confidence: 0.880489668

00:04:03.600 --> 00:04:06.176 And and it's these effects that impart,

NOTE Confidence: 0.880489668

00:04:06.180 --> 00:04:10.100 you know require the need of you know

NOTE Confidence: 0.880489668

00:04:10.100 --> 00:04:13.828 the current FDA guidelines requires 2

NOTE Confidence: 0.880489668

00:04:13.828 --> 00:04:17.282 clinicians to be supporting a patient

NOTE Confidence: 0.880489668

00:04:17.282 --> 00:04:19.287 if they're receiving a psychedelic.

NOTE Confidence: 0.880489668

00:04:19.290 --> 00:04:22.041 And so that's actually kind of a

NOTE Confidence: 0.880489668

00:04:22.041 --> 00:04:24.810 large use of resources in terms of

NOTE Confidence: 0.880489668

00:04:24.810 --> 00:04:28.087 you know 6 to 8 hours to clinicians

NOTE Confidence: 0.880489668

00:04:28.087 --> 00:04:31.349 for one session for for a patient.

NOTE Confidence: 0.880489668

00:04:31.350 --> 00:04:33.877 And so the other aspect is that

NOTE Confidence: 0.880489668

00:04:33.877 --> 00:04:37.049 you know the the use of therapy to

NOTE Confidence: 0.880489668

00:04:37.049 --> 00:04:39.644 scaffold you know the psychedelic

NOTE Confidence: 0.880489668

00:04:39.644 --> 00:04:42.697 treatment encounter is also quite a

NOTE Confidence: 0.880489668

00:04:42.697 --> 00:04:45.630 large endeavor in terms of many trials

NOTE Confidence: 0.880489668

00:04:45.630 --> 00:04:49.010 include eight weeks of twice a week sessions.

NOTE Confidence: 0.880489668

00:04:49.010 --> 00:04:50.610 And so all these things

NOTE Confidence: 0.880489668

00:04:50.610 --> 00:04:52.210 taken together you know it,

NOTE Confidence: 0.880489668

00:04:52.210 --> 00:04:54.085 it certainly raises some concerns

NOTE Confidence: 0.880489668

00:04:54.085 --> 00:04:55.960 in terms of scalability and

NOTE Confidence: 0.880489668

00:04:56.029 --> 00:04:58.798 accessibility and as it pertains

NOTE Confidence: 0.880489668

00:04:58.798 --> 00:05:01.302 to financial high cost insurance.

NOTE Confidence: 0.880489668

00:05:01.302 --> 00:05:03.430 Coverage being certainly something

NOTE Confidence: 0.880489668

00:05:03.430 --> 00:05:05.558 that's influenced by that.

NOTE Confidence: 0.880489668

00:05:05.560 --> 00:05:08.170 So I so for all those reasons I I

NOTE Confidence: 0.880489668

00:05:08.170 --> 00:05:11.080 think it it does actually make DMT

NOTE Confidence: 0.880489668

00:05:11.080 --> 00:05:13.880 seem like an interesting option

NOTE Confidence: 0.880489668

00:05:13.880 --> 00:05:17.724 and so so and part of that another

NOTE Confidence: 0.880489668

00:05:17.724 --> 00:05:20.886 dimension of why DMT we would argue

00:05:20.886 --> 00:05:23.272 is that something that's kind of

00:05:23.272 --> 00:05:25.212 assumed about psychedelics is that

00:05:25.212 --> 00:05:27.696 you know the effects are necessary

00:05:27.696 --> 00:05:29.726 to their therapeutic effects that's

00:05:29.797 --> 00:05:31.397 not proven yet but that's.

00:05:31.400 --> 00:05:33.784 By and large what a lot of people

00:05:33.784 --> 00:05:36.090 think and you know the magnitude

00:05:36.090 --> 00:05:37.934 of psychedelic effects that's you

00:05:37.934 --> 00:05:40.188 know seems to be you know part

00:05:40.188 --> 00:05:41.840 of just the process.

00:05:41.840 --> 00:05:43.310 People kind of lose themselves.

00:05:43.310 --> 00:05:45.290 They experience you like oceanic

00:05:45.290 --> 00:05:47.654 boundlessness and you know that's again

00:05:47.654 --> 00:05:49.922 you know these effects are part of

00:05:49.922 --> 00:05:51.602 what requires close medical monitoring

00:05:51.602 --> 00:05:54.113 and you know for our study we always

NOTE Confidence: 0.880489668

00:05:54.113 --> 00:05:55.328 have to have rescue medication.

NOTE Confidence: 0.880489668

00:05:55.330 --> 00:05:57.310 We were taking blood pressures

NOTE Confidence: 0.880489668

00:05:57.310 --> 00:05:59.290 and likely those things would

NOTE Confidence: 0.880489668

00:05:59.363 --> 00:06:01.350 be required and and practice.

NOTE Confidence: 0.880489668

00:06:01.350 --> 00:06:03.030 So you know it.

NOTE Confidence: 0.880489668

00:06:03.030 --> 00:06:04.330 It begs the question actually.

NOTE Confidence: 0.880489668

00:06:04.330 --> 00:06:06.490 So you know how much psychedelic

NOTE Confidence: 0.880489668

00:06:06.490 --> 00:06:09.109 effect is needed if they are indeed,

NOTE Confidence: 0.880489668

00:06:09.110 --> 00:06:09.722 you know,

NOTE Confidence: 0.880489668

00:06:09.722 --> 00:06:11.252 necessary in terms of duration

NOTE Confidence: 0.880489668

00:06:11.252 --> 00:06:13.228 and as well as the magnitude.

NOTE Confidence: 0.880489668

00:06:13.230 --> 00:06:15.918 Because in theory.

NOTE Confidence: 0.880489668

00:06:15.920 --> 00:06:17.846 If there was a minimum threshold

NOTE Confidence: 0.880489668

00:06:17.846 --> 00:06:18.809 that was needed,

NOTE Confidence: 0.880489668

00:06:18.810 --> 00:06:20.892 well then it would make sense

NOTE Confidence: 0.880489668

00:06:20.892 --> 00:06:22.280 to try and you

NOTE Confidence: 0.906474854285714

00:06:22.364 --> 00:06:25.964 know reach that and so that we could

NOTE Confidence: 0.906474854285714

00:06:25.964 --> 00:06:28.130 potentially optimize administration.

NOTE Confidence: 0.906474854285714

00:06:28.130 --> 00:06:31.748 So again, DMT, it's a tryptamine,

NOTE Confidence: 0.906474854285714

00:06:31.750 --> 00:06:33.156 serotonergic, psychedelic.

NOTE Confidence: 0.906474854285714

00:06:33.156 --> 00:06:38.780 We have psilocybin here and DMT and LSD,

NOTE Confidence: 0.906474854285714

00:06:38.780 --> 00:06:40.376 which you know as a molecule

NOTE Confidence: 0.906474854285714

00:06:40.376 --> 00:06:42.110 is a little bit different.

NOTE Confidence: 0.906474854285714

00:06:42.110 --> 00:06:45.086 But notice that psilocybin is actually.

NOTE Confidence: 0.906474854285714

00:06:45.090 --> 00:06:47.825 You know, and then Dimethyltryptamine

NOTE Confidence: 0.906474854285714

00:06:47.825 --> 00:06:50.013 with just that phosphorus

NOTE Confidence: 0.906474854285714

00:06:50.013 --> 00:06:52.410 phosphoryl group on the 4th carbon.

NOTE Confidence: 0.906474854285714

00:06:52.410 --> 00:06:54.885 OK, so concretely,

NOTE Confidence: 0.906474854285714

00:06:54.885 --> 00:06:59.010 DMT is normally administered either

NOTE Confidence: 0.906474854285714

00:06:59.010 --> 00:07:03.570 intravenously or smoked intranasal intra.

NOTE Confidence: 0.906474854285714

00:07:03.570 --> 00:07:05.335 Inhalation only and so it

NOTE Confidence: 0.906474854285714

00:07:05.335 --> 00:07:07.100 has a very rapid onset,

NOTE Confidence: 0.906474854285714

00:07:07.100 --> 00:07:09.014 you know within minutes and it's

NOTE Confidence: 0.906474854285714

00:07:09.014 --> 00:07:10.700 duration of effects is short.

NOTE Confidence: 0.906474854285714

00:07:10.700 --> 00:07:12.488 It's effect usually resolved

NOTE Confidence: 0.906474854285714

00:07:12.488 --> 00:07:14.276 by about 30 minutes.

NOTE Confidence: 0.906474854285714

00:07:14.280 --> 00:07:18.039 Now some of it's in in the.

NOTE Confidence: 0.906474854285714

00:07:18.040 --> 00:07:18.388 Informally,

NOTE Confidence: 0.906474854285714

00:07:18.388 --> 00:07:20.602 it's been called the businessman's trip.

NOTE Confidence: 0.906474854285714

00:07:20.602 --> 00:07:24.519 And so the reason it has to be given

NOTE Confidence: 0.906474854285714

00:07:24.519 --> 00:07:28.320 IV or intra intranasally is because the

NOTE Confidence: 0.906474854285714

00:07:28.320 --> 00:07:30.640 oral bioavailability is quite poor.

NOTE Confidence: 0.906474854285714

00:07:30.640 --> 00:07:32.776 And that's related to the fact that if

NOTE Confidence: 0.906474854285714

00:07:32.776 --> 00:07:35.520 it's if it reaches the peripheral metabolism,

NOTE Confidence: 0.906474854285714

00:07:35.520 --> 00:07:38.264 it gets metabolized very quickly by money,

NOTE Confidence: 0.906474854285714

00:07:38.270 --> 00:07:44.718 by monoamine oxidase and by by those enzymes.

NOTE Confidence: 0.906474854285714

00:07:44.720 --> 00:07:47.267 And so actually the DMT is not able to

NOTE Confidence: 0.906474854285714

00:07:47.267 --> 00:07:49.472 reach brain and so that's that limit

NOTE Confidence: 0.906474854285714

00:07:49.472 --> 00:07:51.740 its ability to be given that way.

NOTE Confidence: 0.906474854285714

00:07:51.740 --> 00:07:54.476 And so iasca is, you know,

NOTE Confidence: 0.906474854285714

00:07:54.480 --> 00:07:56.104 it's a ceremonial brew,

NOTE Confidence: 0.906474854285714

00:07:56.104 --> 00:07:58.540 it's a tea that you know,

NOTE Confidence: 0.906474854285714

00:07:58.540 --> 00:08:00.520 DMT is known to be,

NOTE Confidence: 0.906474854285714

00:08:00.520 --> 00:08:01.302 you know,

NOTE Confidence: 0.906474854285714

00:08:01.302 --> 00:08:03.257 a very active constituent in

NOTE Confidence: 0.906474854285714

00:08:03.260 --> 00:08:05.840 and it's used in the Amazonian

NOTE Confidence: 0.906474854285714

00:08:05.840 --> 00:08:07.560 regions of South America.

NOTE Confidence: 0.906474854285714

00:08:07.560 --> 00:08:09.070 There's a long tradition and

NOTE Confidence: 0.906474854285714

00:08:09.070 --> 00:08:10.580 history associated with it in

NOTE Confidence: 0.906474854285714

00:08:10.633 --> 00:08:12.295 terms of some of these cultures,

NOTE Confidence: 0.906474854285714

00:08:12.300 --> 00:08:14.799 Brazil in particular I think is 1.

NOTE Confidence: 0.906474854285714

00:08:14.800 --> 00:08:17.200 And, you know, looking at iasca,

NOTE Confidence: 0.906474854285714

00:08:17.200 --> 00:08:19.318 you know, having DMT in it,

NOTE Confidence: 0.906474854285714

00:08:19.320 --> 00:08:21.456 it also has other, you know,

NOTE Confidence: 0.906474854285714

00:08:21.460 --> 00:08:22.664 serotonergic potentiating

NOTE Confidence: 0.906474854285714

00:08:22.664 --> 00:08:23.868 compounds including,

NOTE Confidence: 0.906474854285714

00:08:23.868 --> 00:08:27.941 you know harmaline and other other

NOTE Confidence: 0.906474854285714

00:08:27.941 --> 00:08:33.246 SSRI acting components and ayahuasca.

NOTE Confidence: 0.906474854285714

00:08:33.250 --> 00:08:34.124 You know,

NOTE Confidence: 0.906474854285714

00:08:34.124 --> 00:08:36.309 when ingested orally it's associated

NOTE Confidence: 0.906474854285714

00:08:36.309 --> 00:08:38.310 with pretty profound hallucinations,

NOTE Confidence: 0.906474854285714

00:08:38.310 --> 00:08:39.690 perceptual alteration,

NOTE Confidence: 0.906474854285714

00:08:39.690 --> 00:08:42.462 spiritual insights, euphoria, anxiety.

NOTE Confidence: 0.906474854285714

00:08:42.462 --> 00:08:45.246 It also it's relatively.

NOTE Confidence: 0.906474854285714

00:08:45.250 --> 00:08:47.746 Associated with often nausea,

NOTE Confidence: 0.906474854285714

00:08:47.746 --> 00:08:50.960 vomiting, diarrhea.

NOTE Confidence: 0.906474854285714

00:08:50.960 --> 00:08:53.160 So, so then the question is,

00:08:53.160 --> 00:08:55.020 well, does DMT, you know,

00:08:55.020 --> 00:08:56.460 maybe in the form of ayahuasca,

00:08:56.460 --> 00:08:58.580 does that have antidepressant effects?

00:08:58.580 --> 00:08:59.820 And you know, interestingly,

00:08:59.820 --> 00:09:01.616 you know, I was trying to look at the

00:09:01.616 --> 00:09:03.056 history and to see what, you know,

00:09:03.056 --> 00:09:05.200 if if that was something on anyone's radar.

00:09:05.200 --> 00:09:08.840 And you know there was this psychiatrist

00:09:08.840 --> 00:09:12.700 Raymond Prince who wrote this article about,

00:09:12.700 --> 00:09:13.390 you know,

00:09:13.390 --> 00:09:15.460 his observations of iowaska and how,

00:09:15.460 --> 00:09:17.716 you know, shamans used it as you know,

00:09:17.720 --> 00:09:19.755 for a therapeutic like purposes

00:09:19.755 --> 00:09:20.976 and I thought.

00:09:20.980 --> 00:09:22.800 This was interesting because,

00:09:22.800 --> 00:09:25.065 you know, I actually want you to

NOTE Confidence: 0.906474854285714

00:09:25.065 --> 00:09:27.290 read this part and so referring to,

NOTE Confidence: 0.906474854285714

00:09:27.290 --> 00:09:28.370 you know, ayahuasca,

NOTE Confidence: 0.906474854285714

00:09:28.370 --> 00:09:30.170 it is a fearsome thing.

NOTE Confidence: 0.906474854285714

00:09:30.170 --> 00:09:32.050 I was very much afraid.

NOTE Confidence: 0.906474854285714

00:09:32.050 --> 00:09:32.974 And Tarner,

NOTE Confidence: 0.906474854285714

00:09:32.974 --> 00:09:35.746 reporting his own initiation into shamanism,

NOTE Confidence: 0.906474854285714

00:09:35.750 --> 00:09:38.010 describes the terrifying images he

NOTE Confidence: 0.906474854285714

00:09:38.010 --> 00:09:40.989 experienced after taking a species of Natura.

NOTE Confidence: 0.906474854285714

00:09:40.990 --> 00:09:42.706 There are two types of terror

NOTE Confidence: 0.906474854285714

00:09:42.706 --> 00:09:43.850 involved in psychedelic youth,

NOTE Confidence: 0.906474854285714

00:09:43.850 --> 00:09:45.461 specific hallucinatory images

NOTE Confidence: 0.906474854285714

00:09:45.461 --> 00:09:48.683 such as giant snakes or Jaguars,

NOTE Confidence: 0.906474854285714

00:09:48.690 --> 00:09:50.600 and the general terror of

NOTE Confidence: 0.906474854285714

00:09:50.600 --> 00:09:51.746 impending ego dissolution.

NOTE Confidence: 0.906474854285714

00:09:51.750 --> 00:09:53.178 Both could conceivably related

14

NOTE Confidence: 0.906474854285714

00:09:53.178 --> 00:09:54.963 to endorphin response as part

NOTE Confidence: 0.906474854285714

00:09:54.963 --> 00:09:56.909 of their therapeutic efficacy.

NOTE Confidence: 0.906474854285714

00:09:56.910 --> 00:09:59.364 So already there is some observation

NOTE Confidence: 0.906474854285714

00:09:59.364 --> 00:10:01.528 or thinking about you know

NOTE Confidence: 0.906474854285714

00:10:01.528 --> 00:10:03.788 these psychedelic effects as you

NOTE Confidence: 0.906474854285714

00:10:03.788 --> 00:10:05.596 know having some potential

NOTE Confidence: 0.890212765652174

00:10:05.666 --> 00:10:08.016 efficacy and curiously in terms

NOTE Confidence: 0.890212765652174

00:10:08.016 --> 00:10:10.404 of the you know the distressing

NOTE Confidence: 0.890212765652174

00:10:10.404 --> 00:10:12.425 elements seem to be actually

NOTE Confidence: 0.890212765652174

00:10:12.425 --> 00:10:15.106 important for that effect in in this.

NOTE Confidence: 0.890212765652174

00:10:15.110 --> 00:10:17.216 And in that perspective and so

NOTE Confidence: 0.890212765652174

00:10:17.216 --> 00:10:19.818 there are some, there are some

NOTE Confidence: 0.890212765652174

00:10:19.818 --> 00:10:22.398 clinical trials that looked at.

NOTE Confidence: 0.890212765652174

00:10:22.400 --> 00:10:24.955 Iasca, you know, in a rigorous way

NOTE Confidence: 0.890212765652174

00:10:24.955 --> 00:10:26.968 relatively speaking the left we have

NOTE Confidence: 0.890212765652174

00:10:26.968 --> 00:10:29.270 here is an open label trial that was,

NOTE Confidence: 0.890212765652174

00:10:29.270 --> 00:10:31.188 you know just done in a sample

NOTE Confidence: 0.890212765652174

00:10:31.188 --> 00:10:32.010 of three individuals.

NOTE Confidence: 0.890212765652174

00:10:32.010 --> 00:10:34.970 We have here on the X axis time and the

NOTE Confidence: 0.890212765652174

00:10:35.048 --> 00:10:37.952 Y axis is their Madras score, which is,

NOTE Confidence: 0.890212765652174

00:10:37.952 --> 00:10:39.707 you know, depression rating scale.

NOTE Confidence: 0.890212765652174

00:10:39.710 --> 00:10:43.196 And so you see here you know

NOTE Confidence: 0.890212765652174

00:10:43.196 --> 00:10:45.728 the peak effects, this is our,

NOTE Confidence: 0.890212765652174

00:10:45.728 --> 00:10:47.804 our minutes and this is days.

NOTE Confidence: 0.890212765652174

00:10:47.810 --> 00:10:50.468 So you have baseline before administration,

NOTE Confidence: 0.890212765652174

00:10:50.470 --> 00:10:52.242 you have relatively higher.

NOTE Confidence: 0.890212765652174

00:10:52.242 --> 00:10:54.457 Depression score and you know,

NOTE Confidence: 0.890212765652174

00:10:54.460 --> 00:10:55.844 it, it comes down,

NOTE Confidence: 0.890212765652174

00:10:55.844 --> 00:10:57.920 but it goes through an interesting

NOTE Confidence: 0.890212765652174

00:10:57.987 --> 00:11:00.324 kind of ups and downs and to remember

NOTE Confidence: 0.890212765652174

00:11:00.324 --> 00:11:02.436 the peak effects around 2 hours.

NOTE Confidence: 0.890212765652174

00:11:02.440 --> 00:11:04.940 And so curiously, you know,

NOTE Confidence: 0.890212765652174

00:11:04.940 --> 00:11:06.750 you see this actually uptick

NOTE Confidence: 0.890212765652174

00:11:06.750 --> 00:11:07.836 in depressive symptoms.

NOTE Confidence: 0.890212765652174

00:11:07.840 --> 00:11:09.328 So that you know,

NOTE Confidence: 0.890212765652174

00:11:09.328 --> 00:11:11.188 actually lends itself towards well

NOTE Confidence: 0.890212765652174

00:11:11.188 --> 00:11:12.993 what does the psychedelic experience

NOTE Confidence: 0.890212765652174

00:11:12.993 --> 00:11:16.079 need to be for it to be therapeutic.

NOTE Confidence: 0.890212765652174

00:11:16.080 --> 00:11:18.929 So I mean that's a question that

NOTE Confidence: 0.890212765652174

00:11:18.929 --> 00:11:21.286 certainly will need to be answered

NOTE Confidence: 0.890212765652174

00:11:21.286 --> 00:11:23.450 and probably will be looked at.

NOTE Confidence: 0.890212765652174

00:11:23.450 --> 00:11:24.980 In the in the future,

NOTE Confidence: 0.890212765652174

00:11:24.980 --> 00:11:27.276 the right is a a clinical trial,

NOTE Confidence: 0.890212765652174

00:11:27.280 --> 00:11:28.704 randomized clinical trial where

NOTE Confidence: 0.890212765652174

00:11:28.704 --> 00:11:31.184 you know we had a placebo control

NOTE Confidence: 0.890212765652174

00:11:31.184 --> 00:11:33.432 and so again this is using the AMD

NOTE Confidence: 0.890212765652174

17

00:11:33.432 --> 00:11:36.311 we see at by seven days after one

00:11:36.311 --> 00:11:38.102 administration of ayahuasca you see

00:11:38.102 --> 00:11:40.910 a change of from 25 to about 10

00:11:41.005 --> 00:11:44.155 that's a quite a large effect size.

00:11:44.160 --> 00:11:45.906 I'd say that's comparable to you

00:11:45.906 --> 00:11:47.858 know what some of the psilocybin

00:11:47.858 --> 00:11:50.024 studies have shown in terms of

00:11:50.024 --> 00:11:52.116 their impressive effects but and

00:11:52.116 --> 00:11:54.122 so while ayahuasca. Contains DMT.

00:11:54.122 --> 00:11:56.439 It contains all the other things as

00:11:56.439 --> 00:11:58.550 we mentioned, and so as a result,

00:11:58.550 --> 00:12:01.772 you know we can't really extrapolate

00:12:01.772 --> 00:12:04.941 about DMT itself because it has

00:12:04.941 --> 00:12:07.266 not been studied in isolation.

00:12:07.270 --> 00:12:10.175 So. You know it. It really does.

00:12:10.180 --> 00:12:10.840 You know,

NOTE Confidence: 0.890212765652174

00:12:10.840 --> 00:12:12.820 the question really arises for all

NOTE Confidence: 0.890212765652174

00:12:12.820 --> 00:12:14.612 these psychedelics of, you know,

NOTE Confidence: 0.890212765652174

00:12:14.612 --> 00:12:16.917 are these effects long lasting?

NOTE Confidence: 0.890212765652174

00:12:16.920 --> 00:12:19.314 And you know there is some suggestion

NOTE Confidence: 0.890212765652174

00:12:19.314 --> 00:12:21.716 that you know psilocybin does have

NOTE Confidence: 0.890212765652174

00:12:21.716 --> 00:12:23.624 effects that seem to last for

NOTE Confidence: 0.890212765652174

00:12:23.624 --> 00:12:25.698 maybe one month or even longer.

NOTE Confidence: 0.890212765652174

00:12:25.700 --> 00:12:27.278 And then the so the natural

NOTE Confidence: 0.890212765652174

00:12:27.278 --> 00:12:28.719 question is well how do we,

NOTE Confidence: 0.890212765652174

00:12:28.720 --> 00:12:31.420 how is that happening now?

NOTE Confidence: 0.890212765652174

00:12:31.420 --> 00:12:33.200 Depression to be associated

NOTE Confidence: 0.890212765652174

00:12:33.200 --> 00:12:34.980 with dendritic spine loss,

NOTE Confidence: 0.890212765652174

00:12:34.980 --> 00:12:38.058 decrease number inside the glial cells.

NOTE Confidence: 0.890212765652174

00:12:38.060 --> 00:12:39.828 These things have ramifications

NOTE Confidence: 0.890212765652174

00:12:39.828 --> 00:12:42.038 for brain regions such as

NOTE Confidence: 0.890212765652174

00:12:42.038 --> 00:12:43.959 hippocampus and prefrontal cortex.

NOTE Confidence: 0.890212765652174

00:12:43.960 --> 00:12:45.196 And as a result, you know,

NOTE Confidence: 0.890212765652174

00:12:45.200 --> 00:12:47.256 you get ultimately impaired.

NOTE Confidence: 0.890212765652174

00:12:47.256 --> 00:12:47.770 Activity.

NOTE Confidence: 0.890212765652174

00:12:47.770 --> 00:12:49.330 And these things correlate with,

NOTE Confidence: 0.890212765652174

00:12:49.330 --> 00:12:50.954 you know,

NOTE Confidence: 0.890212765652174

00:12:50.954 --> 00:12:52.578 depressive symptomatology.

NOTE Confidence: 0.890212765652174

00:12:52.580 --> 00:12:55.694 And so in terms of the basis of how

NOTE Confidence: 0.890212765652174

00:12:55.700 --> 00:12:58.700 these psychedelics work and this,

NOTE Confidence: 0.890212765652174

00:12:58.700 --> 00:13:01.916 it seems to be that they are impacting

NOTE Confidence: 0.890212765652174

00:13:01.920 --> 00:13:04.335 neuroplasticity insofar as we define

NOTE Confidence: 0.890212765652174

00:13:04.335 --> 00:13:08.185 it to refer to the connectivity between

NOTE Confidence: 0.890212765652174

00:13:08.185 --> 00:13:11.920 neurons and their actual, you know,

NOTE Confidence: 0.890212765652174

00:13:11.920 --> 00:13:13.480 their, their neurotransmission,

NOTE Confidence: 0.890212765652174

00:13:13.480 --> 00:13:17.004 you know, looking at the, at the.

NOTE Confidence: 0.890212765652174

00:13:17.004 --> 00:13:19.530 Post synaptic numbering.

NOTE Confidence: 0.890212765652174

00:13:19.530 --> 00:13:22.850 OK, so all taken together,

NOTE Confidence: 0.890212765652174

00:13:22.850 --> 00:13:26.574 these things guided our study designing to.

NOTE Confidence: 0.844688713333333

00:13:26.580 --> 00:13:28.440 In terms of any specific aims

NOTE Confidence: 0.844688713333333

00:13:28.440 --> 00:13:30.347 and hypothesis where we wanted to

NOTE Confidence: 0.844688713333333

00:13:30.347 --> 00:13:31.885 test the safety, tolerability,

NOTE Confidence: 0.844688713333333

00:13:31.885 --> 00:13:34.385 efficacy and potential mechanisms

NOTE Confidence: 0.844688713333333

00:13:34.385 --> 00:13:37.510 involved with DMT and major

NOTE Confidence: 0.844688713333333

00:13:37.593 --> 00:13:40.257 depression and healthy controls.

NOTE Confidence: 0.844688713333333

00:13:40.260 --> 00:13:42.980 So our initial study design

NOTE Confidence: 0.844688713333333

00:13:42.980 --> 00:13:45.156 was a double-blind randomized

NOTE Confidence: 0.844688713333333

00:13:45.156 --> 00:13:46.960 placebo control trial.

NOTE Confidence: 0.844688713333333

00:13:46.960 --> 00:13:48.919 And you know.

NOTE Confidence: 0.844688713333333

00:13:48.919 --> 00:13:52.184 But we actually ran into

NOTE Confidence: 0.844688713333333

00:13:52.184 --> 00:13:54.349 a roadblock of sorts.

NOTE Confidence: 0.844688713333333

00:13:54.349 --> 00:13:58.536 The IRB told us that we had to

NOTE Confidence: 0.844688713333333

00:13:58.536 --> 00:14:02.428 first do a fixed order open label

NOTE Confidence: 0.844688713333333

00:14:02.428 --> 00:14:04.958 dose escalation study to determine

NOTE Confidence: 0.844688713333333

00:14:04.958 --> 00:14:07.262 the safety of the highest dose

NOTE Confidence: 0.844688713333333

00:14:07.262 --> 00:14:09.868 of DMT that was tolerable and

NOTE Confidence: 0.844688713333333

00:14:09.868 --> 00:14:12.058 safe in depressed subjects as

NOTE Confidence: 0.844688713333333

00:14:12.058 --> 00:14:14.657 well as health healthy controls.

NOTE Confidence: 0.93417254375

00:14:16.860 --> 00:14:19.516 And those are the results of this study,

NOTE Confidence: 0.93417254375

00:14:19.520 --> 00:14:23.224 is what we shall be going over today.

NOTE Confidence: 0.93417254375

00:14:23.230 --> 00:14:25.606 The doses, as I mentioned up to .3,

NOTE Confidence: 0.93417254375

00:14:25.610 --> 00:14:28.634 so we had two doses that was our .1

NOTE Confidence: 0.93417254375

00:14:28.634 --> 00:14:31.205 milligram per kilogram and then the .3.

NOTE Confidence: 0.93417254375

00:14:31.210 --> 00:14:34.242 These doses are based off of the work

NOTE Confidence: 0.93417254375

00:14:34.242 --> 00:14:37.359 done by Rick Strassman who actually was

NOTE Confidence: 0.93417254375

00:14:37.359 --> 00:14:39.900 someone that was cited in the literature.

NOTE Confidence: 0.93417254375

00:14:39.900 --> 00:14:42.843 And some of this, you know from the previous,

NOTE Confidence: 0.93417254375

00:14:42.850 --> 00:14:44.425 you know, old article I showed you.

NOTE Confidence: 0.93417254375

00:14:44.430 --> 00:14:45.850 There was others like that

NOTE Confidence: 0.93417254375

00:14:45.850 --> 00:14:48.172 where he was actually, you know,

NOTE Confidence: 0.93417254375

00:14:48.172 --> 00:14:51.127 co-author, but he has specifically

NOTE Confidence: 0.93417254375

00:14:51.127 --> 00:14:52.900 studied intravenous DMT.

NOTE Confidence: 0.93417254375

00:14:52.900 --> 00:14:54.545 Looking to understand more about

NOTE Confidence: 0.93417254375

00:14:54.545 --> 00:14:56.606 human consciousness and so the and

NOTE Confidence: 0.93417254375

00:14:56.606 --> 00:14:58.766 with healthy controls which were you

NOTE Confidence: 0.93417254375

00:14:58.766 --> 00:15:00.220 know experienced psychedelic users.

NOTE Confidence: 0.93417254375

00:15:00.220 --> 00:15:02.524 He has a few clinical trials where you

NOTE Confidence: 0.93417254375

00:15:02.524 --> 00:15:04.884 know he established a paradigm and you

NOTE Confidence: 0.93417254375

00:15:04.884 --> 00:15:07.722 know proof of concept of the safety and

NOTE Confidence: 0.93417254375

00:15:07.722 --> 00:15:09.822 and psychedelic effects of these doses

NOTE Confidence: 0.93417254375

00:15:09.822 --> 00:15:12.838 to .1 being a sub psychedelic dose.

NOTE Confidence: 0.93417254375

00:15:12.840 --> 00:15:16.744 Meaning that .1 make per cake dose is

NOTE Confidence: 0.93417254375

00:15:16.744 --> 00:15:19.344 not associated with over perceptual

NOTE Confidence: 0.93417254375

00:15:19.344 --> 00:15:22.893 changes while the .3 you know is.

NOTE Confidence: 0.93417254375

00:15:22.900 --> 00:15:24.310 Quite so robustly.

NOTE Confidence: 0.93417254375

00:15:24.310 --> 00:15:27.130 One of the words that captures,

NOTE Confidence: 0.93417254375

00:15:27.130 --> 00:15:27.730 you know,

NOTE Confidence: 0.93417254375

00:15:27.730 --> 00:15:29.230 how people describe the intensity

NOTE Confidence: 0.93417254375

00:15:29.230 --> 00:15:31.189 of it because it's known to be

NOTE Confidence: 0.93417254375

00:15:31.189 --> 00:15:32.950 quite intense as you know, knowing,

NOTE Confidence: 0.93417254375

00:15:32.950 --> 00:15:34.450 knowing its pharmacokinetics

NOTE Confidence: 0.93417254375

00:15:34.450 --> 00:15:36.950 being very rapid and onset.

NOTE Confidence: 0.93417254375

00:15:36.950 --> 00:15:38.970 You know that also suggestive,

NOTE Confidence: 0.93417254375

00:15:38.970 --> 00:15:40.559 but one of the words that uses,

NOTE Confidence: 0.93417254375

00:15:40.560 --> 00:15:41.098 you know,

NOTE Confidence: 0.93417254375

00:15:41.098 --> 00:15:43.250 it feels like a breakthrough of sorts and

NOTE Confidence: 0.93417254375

00:15:43.309 --> 00:15:45.528 that that initial induction of effects is,

NOTE Confidence: 0.93417254375

00:15:45.530 --> 00:15:47.644 you know, referred to with words like

NOTE Confidence: 0.93417254375

00:15:47.644 --> 00:15:50.066 that and the actual administration

NOTE Confidence: 0.93417254375

00:15:50.066 --> 00:15:53.240 of the drug is done intravenously.

NOTE Confidence: 0.93417254375

00:15:53.240 --> 00:15:57.353 And over 30 to 60 seconds as a bolus.

NOTE Confidence: 0.93417254375

00:15:57.360 --> 00:15:58.836 And so that was doctor Dsouza,

NOTE Confidence: 0.93417254375

00:15:58.840 --> 00:15:59.988 you know,

NOTE Confidence: 0.93417254375

00:15:59.988 --> 00:16:02.858 administering those to our subjects.

NOTE Confidence: 0.93417254375

00:16:02.860 --> 00:16:03.355 OK.

NOTE Confidence: 0.93417254375

00:16:03.355 --> 00:16:07.183 So in terms of how we measured all

NOTE Confidence: 0.93417254375

00:16:07.183 --> 00:16:09.361 these things that we discussed is

NOTE Confidence: 0.93417254375

00:16:09.361 --> 00:16:12.860 very was our aims in terms of safety.

NOTE Confidence: 0.93417254375

00:16:12.860 --> 00:16:15.410 Physiologically we had we measure

NOTE Confidence: 0.93417254375

00:16:15.410 --> 00:16:17.930 blood pressures, heart rates,

NOTE Confidence: 0.93417254375

00:16:17.930 --> 00:16:20.555 oxygen saturation and you know,

NOTE Confidence: 0.93417254375

00:16:20.560 --> 00:16:22.260 heart rate oxygen being continuous

NOTE Confidence: 0.93417254375

00:16:22.260 --> 00:16:23.896 blood pressure, you know,

NOTE Confidence: 0.93417254375

00:16:23.896 --> 00:16:26.286 we measured at numerous time

NOTE Confidence: 0.93417254375

00:16:26.286 --> 00:16:29.160 points adverse events.

NOTE Confidence: 0.93417254375

00:16:29.160 --> 00:16:30.976 You know we were very careful you know

NOTE Confidence: 0.93417254375

00:16:30.976 --> 00:16:32.797 this being you know the first clinical

NOTE Confidence: 0.93417254375

00:16:32.797 --> 00:16:34.720 trial using DMT and depressed individuals.

NOTE Confidence: 0.93417254375

00:16:34.720 --> 00:16:36.673 You know we really wanted to make

NOTE Confidence: 0.93417254375

00:16:36.673 --> 00:16:38.714 sure we captured any and all potential

NOTE Confidence: 0.93417254375

00:16:38.714 --> 00:16:41.211 adverse events that to any of the the

NOTE Confidence: 0.93417254375

00:16:41.211 --> 00:16:43.684 subject experience and in terms of.

NOTE Confidence: 0.93417254375

00:16:43.684 --> 00:16:46.300 Rescue medications based off the work

NOTE Confidence: 0.93417254375

00:16:46.381 --> 00:16:49.000 done in healthy controls, you know,

NOTE Confidence: 0.93417254375

00:16:49.000 --> 00:16:50.500 temporal increases in heart rate,

NOTE Confidence: 0.93417254375

00:16:50.500 --> 00:16:53.176 blood pressure, anxiety, confusion.

NOTE Confidence: 0.93417254375

00:16:53.176 --> 00:16:56.521 We selected a rescue medications

NOTE Confidence: 0.93417254375

00:16:56.521 --> 00:16:58.979 to serve those needs,

NOTE Confidence: 0.93417254375

00:16:58.980 --> 00:17:00.355 but we actually didn't need

NOTE Confidence: 0.93417254375

00:17:00.355 --> 00:17:02.160 to use any in our study.

NOTE Confidence: 0.93417254375

00:17:02.160 --> 00:17:04.400 And of course the need for the study

NOTE Confidence: 0.93417254375

00:17:04.400 --> 00:17:07.004 to be aborted or if subjects dropping

NOTE Confidence: 0.93417254375

00:17:07.004 --> 00:17:09.579 out after receiving the the .1 dose,

NOTE Confidence: 0.93417254375

00:17:09.580 --> 00:17:11.990 those things also certainly would

NOTE Confidence: 0.93417254375

00:17:11.990 --> 00:17:14.400 inform how we understood safety.

NOTE Confidence: 0.93417254375

00:17:14.400 --> 00:17:14.777 OK.

NOTE Confidence: 0.93417254375

00:17:14.777 --> 00:17:15.908 As for tolerability,

NOTE Confidence: 0.93417254375

00:17:15.908 --> 00:17:18.965 so we use what's called a which I'm

NOTE Confidence: 0.93417254375

00:17:18.965 --> 00:17:21.805 sure many of you know a visual analog

NOTE Confidence: 0.93417254375

00:17:21.883 --> 00:17:24.781 scale measure which is basically a

NOTE Confidence: 0.93417254375

00:17:24.781 --> 00:17:27.291 horizontal line anchored with vertical

NOTE Confidence: 0.93417254375

00:17:27.291 --> 00:17:30.717 lines that's you know prompt the,

NOTE Confidence: 0.93417254375

00:17:30.720 --> 00:17:31.173 the,

NOTE Confidence: 0.93417254375

00:17:31.173 --> 00:17:31.626 the,

NOTE Confidence: 0.93417254375

00:17:31.626 --> 00:17:35.250 the individual to answer on that spectrum and

NOTE Confidence: 0.871317273888889

27

00:17:35.341 --> 00:17:38.557 you know make a dash to indicate where.

NOTE Confidence: 0.871317273888889

00:17:38.560 --> 00:17:41.320 So you know for example tolerability was you

NOTE Confidence: 0.871317273888889

00:17:41.320 --> 00:17:44.460 know was one of those things and actually.

NOTE Confidence: 0.871317273888889

00:17:44.460 --> 00:17:46.740 You know something about.

NOTE Confidence: 0.871317273888889

00:17:46.740 --> 00:17:49.490 Just nomenclature or maybe semantics,

NOTE Confidence: 0.871317273888889

00:17:49.490 --> 00:17:50.506 safety. Tolerability.

NOTE Confidence: 0.871317273888889

00:17:50.506 --> 00:17:53.046 Those words seem to often.

NOTE Confidence: 0.871317273888889

00:17:53.050 --> 00:17:54.386 They seem to have a lot of overlap,

NOTE Confidence: 0.871317273888889

00:17:54.390 --> 00:17:56.946 but it seems to be this.

NOTE Confidence: 0.871317273888889

00:17:56.950 --> 00:17:59.542 There are some important distinctions between

NOTE Confidence: 0.871317273888889

00:17:59.542 --> 00:18:05.540 the two that I wanted to raise, and that's.

NOTE Confidence: 0.871317273888889

00:18:05.540 --> 00:18:09.230 You know, go away based off.

NOTE Confidence: 0.871317273888889

00:18:09.230 --> 00:18:13.940 Now the FDA looks at these things, so.

NOTE Confidence: 0.871317273888889

00:18:13.940 --> 00:18:14.680 I'm sorry.

NOTE Confidence: 0.803428058636364

00:18:18.910 --> 00:18:21.822 So do you at the FDA defines tolerability

NOTE Confidence: 0.803428058636364

00:18:21.822 --> 00:18:24.787 as the degree to which overt adverse

NOTE Confidence: 0.803428058636364

00:18:24.787 --> 00:18:27.709 effects can be tolerated by a patient

NOTE Confidence: 0.803428058636364

00:18:27.710 --> 00:18:29.859 while safety is defined as the risk

NOTE Confidence: 0.803428058636364

00:18:29.859 --> 00:18:32.526 to the subject or patient from a drug

NOTE Confidence: 0.803428058636364

00:18:32.526 --> 00:18:34.678 or biologic assist by laboratory test

NOTE Confidence: 0.803428058636364

00:18:34.678 --> 00:18:36.673 vital signs clinical adverse events

NOTE Confidence: 0.803428058636364

00:18:36.673 --> 00:18:38.580 and other special safety tests.

NOTE Confidence: 0.803428058636364

00:18:38.580 --> 00:18:41.370 So you know we keeping that in mind we

NOTE Confidence: 0.803428058636364

00:18:41.443 --> 00:18:43.879 we try to distinguish between safety

NOTE Confidence: 0.803428058636364

00:18:43.879 --> 00:18:46.339 and how we interpreted safety and.

NOTE Confidence: 0.803428058636364

00:18:46.340 --> 00:18:49.580 Capability so a psychedelic effects.

NOTE Confidence: 0.803428058636364

00:18:49.580 --> 00:18:53.096 We also used AVAS visual analog

NOTE Confidence: 0.803428058636364

00:18:53.096 --> 00:18:55.808 scale version of the altered states

NOTE Confidence: 0.803428058636364

00:18:55.808 --> 00:18:58.740 of consciousness. This was 23 items.

NOTE Confidence: 0.803428058636364

00:18:58.740 --> 00:19:02.190 We also use the psycho psychotomimetic

NOTE Confidence: 0.803428058636364

00:19:02.296 --> 00:19:03.710 effects scale.

NOTE Confidence: 0.803428058636364

00:19:03.710 --> 00:19:07.028 And then we measured anxiety and

NOTE Confidence: 0.803428058636364

00:19:07.028 --> 00:19:08.687 drug reinforcing effects.

NOTE Confidence: 0.803428058636364

00:19:08.690 --> 00:19:11.805 You know, being a schedule one substance,

NOTE Confidence: 0.803428058636364

00:19:11.810 --> 00:19:13.598 the psychedelic compounds

NOTE Confidence: 0.803428058636364

00:19:13.598 --> 00:19:16.282 necessarily have been, you know,

NOTE Confidence: 0.803428058636364

00:19:16.282 --> 00:19:18.512 viewed by the federal government

NOTE Confidence: 0.803428058636364

00:19:18.512 --> 00:19:20.650 as highly addictive compounds.

NOTE Confidence: 0.803428058636364

00:19:20.650 --> 00:19:21.890 That's part of the definition

NOTE Confidence: 0.803428058636364

00:19:21.890 --> 00:19:23.130 of a schedule one substance.

NOTE Confidence: 0.803428058636364

00:19:23.130 --> 00:19:24.222 So, you know,

NOTE Confidence: 0.803428058636364

00:19:24.222 --> 00:19:26.406 naturally it's very important to assess,

NOTE Confidence: 0.803428058636364

00:19:26.410 --> 00:19:29.580 you know, potential drug reinforcement.

NOTE Confidence: 0.803428058636364

00:19:29.580 --> 00:19:31.800 And in terms of efficacy being

NOTE Confidence: 0.803428058636364

00:19:31.800 --> 00:19:34.160 a clinical trial for depression,

NOTE Confidence: 0.803428058636364

00:19:34.160 --> 00:19:36.416 we utilize the grid AMD which is you

NOTE Confidence: 0.803428058636364

00:19:36.416 --> 00:19:38.814 know a well validated scale that's

NOTE Confidence: 0.803428058636364

00:19:38.814 --> 00:19:41.454 used in clinical trials for depression,

NOTE Confidence: 0.803428058636364

00:19:41.460 --> 00:19:46.280 our cutoff score being 17.

NOTE Confidence: 0.803428058636364

00:19:46.280 --> 00:19:47.064 All right.

NOTE Confidence: 0.803428058636364

00:19:47.064 --> 00:19:50.680 And so just to go over some of our,

NOTE Confidence: 0.803428058636364

00:19:50.680 --> 00:19:53.544 our pertinent inclusion exclusion

NOTE Confidence: 0.803428058636364

00:19:53.544 --> 00:19:56.585 criteria for the and overall it's

NOTE Confidence: 0.803428058636364

00:19:56.585 --> 00:19:58.910 very consistent with the psychedelic

NOTE Confidence: 0.803428058636364

00:19:58.995 --> 00:20:00.138 trials to date.

NOTE Confidence: 0.803428058636364

00:20:00.140 --> 00:20:03.532 You know in our depressed group we we

NOTE Confidence: 0.803428058636364

00:20:03.532 --> 00:20:05.731 define treatment refractory as you

NOTE Confidence: 0.803428058636364

00:20:05.731 --> 00:20:08.699 know having at least one failed SSRI

NOTE Confidence: 0.803428058636364

00:20:08.700 --> 00:20:10.980 treatment in the current episode.

NOTE Confidence: 0.803428058636364

00:20:10.980 --> 00:20:12.930 You know we also appropriately and

NOTE Confidence: 0.803428058636364

00:20:12.930 --> 00:20:14.634 that's really kind of required

NOTE Confidence: 0.803428058636364

00:20:14.634 --> 00:20:16.329 patients not be taking it.

NOTE Confidence: 0.803428058636364

00:20:16.330 --> 00:20:18.694 Depressants because of the

NOTE Confidence: 0.803428058636364

00:20:18.694 --> 00:20:21.180 potential concerns of, you know,

NOTE Confidence: 0.803428058636364

00:20:21.180 --> 00:20:23.310 an excess of serotonin such as,

NOTE Confidence: 0.803428058636364

00:20:23.310 --> 00:20:23.844 you know,

NOTE Confidence: 0.803428058636364

00:20:23.844 --> 00:20:25.446 leading to something like serotonin syndrome.

NOTE Confidence: 0.803428058636364

00:20:25.450 --> 00:20:26.467 So, you know,

NOTE Confidence: 0.803428058636364

00:20:26.467 --> 00:20:29.452 no one could be on a medication that

NOTE Confidence: 0.803428058636364

00:20:29.452 --> 00:20:32.046 was potentiating their serotonin.

NOTE Confidence: 0.803428058636364

00:20:32.046 --> 00:20:34.350 Likewise for supplements,

NOTE Confidence: 0.803428058636364

00:20:34.350 --> 00:20:35.890 everyone had to begin treatment.

NOTE Confidence: 0.803428058636364

00:20:35.890 --> 00:20:37.666 We excluded anyone with psychotic disorders,

NOTE Confidence: 0.803428058636364

00:20:37.670 --> 00:20:38.213 history,

NOTE Confidence: 0.803428058636364

00:20:38.213 --> 00:20:41.668 mania and in terms of suicide risk because,

NOTE Confidence: 0.803428058636364

00:20:41.668 --> 00:20:43.746 you know a lot of these patients being

NOTE Confidence: 0.803428058636364

00:20:43.746 --> 00:20:46.340 treated or resistant, you know, I had a.

NOTE Confidence: 0.803428058636364

00:20:46.340 --> 00:20:50.638 Appreciable risk of suicide if not previous.

NOTE Confidence: 0.803428058636364

00:20:50.640 --> 00:20:52.744 So we we've been really based it off

NOTE Confidence: 0.803428058636364

00:20:52.744 --> 00:20:55.658 if we temporarily had recent elevated risk,

NOTE Confidence: 0.803428058636364

00:20:55.660 --> 00:20:58.525 you know we excluded those

NOTE Confidence: 0.803428058636364

00:20:58.525 --> 00:21:00.279 individuals for healthy controls.

NOTE Confidence: 0.803428058636364

00:21:00.279 --> 00:21:03.668 We just wanted to be careful to minimize

NOTE Confidence: 0.803428058636364

00:21:03.668 --> 00:21:08.380 their psychedelic use as a specific point.

NOTE Confidence: 0.803428058636364

00:21:08.380 --> 00:21:12.738 OK, so here we have our consort chart

NOTE Confidence: 0.803428058636364

00:21:12.740 --> 00:21:16.500 and you'll see that we we assessed 52.

NOTE Confidence: 0.803428058636364

00:21:16.500 --> 00:21:18.859 People that called in a lot of

NOTE Confidence: 0.803428058636364

00:21:18.859 --> 00:21:21.330 them you know found this online,

NOTE Confidence: 0.803428058636364

00:21:21.330 --> 00:21:24.375 people looking for DMT to help themselves

NOTE Confidence: 0.803428058636364

00:21:24.375 --> 00:21:27.289 with their with their mental health.

NOTE Confidence: 0.803428058636364

00:21:27.290 --> 00:21:29.555 Many were deemed ineligible for

NOTE Confidence: 0.803428058636364

00:21:29.555 --> 00:21:32.570 a variety of the normal reasons,

NOTE Confidence: 0.803428058636364

00:21:32.570 --> 00:21:34.619 not meeting criteria,

NOTE Confidence: 0.803428058636364

33

00:21:34.619 --> 00:21:36.668 having excluding diagnosis,

NOTE Confidence: 0.803428058636364

00:21:36.670 --> 00:21:37.930 living too far away,

NOTE Confidence: 0.803428058636364

00:21:37.930 --> 00:21:39.190 not being in treatments.

NOTE Confidence: 0.803428058636364

00:21:39.190 --> 00:21:42.004 So we ultimately brought in 14 people,

NOTE Confidence: 0.803428058636364

00:21:42.010 --> 00:21:43.516 two failed screening,

NOTE Confidence: 0.803428058636364

00:21:43.516 --> 00:21:46.026 one didn't meet the minimum

NOTE Confidence: 0.803428058636364

00:21:46.026 --> 00:21:47.030 depression severity.

NOTE Confidence: 0.803428058636364

00:21:47.030 --> 00:21:49.760 Which was 17 and another head

NOTE Confidence: 0.803428058636364

00:21:49.760 --> 00:21:51.580 ongoing substance use disorder.

NOTE Confidence: 0.803428058636364

00:21:51.580 --> 00:21:54.359 So we enrolled 12 and we technically

NOTE Confidence: 0.803428058636364

00:21:54.359 --> 00:21:56.819 had two dropouts and these were

NOTE Confidence: 0.803428058636364

00:21:56.819 --> 00:21:59.598 individuals that did not you know even

NOTE Confidence: 0.840802431538461

00:21:59.676 --> 00:22:02.051 really start the any of our testing

NOTE Confidence: 0.840802431538461

00:22:02.051 --> 00:22:04.157 those sessions because you know one

NOTE Confidence: 0.840802431538461

00:22:04.157 --> 00:22:06.154 didn't complete the paper so they

NOTE Confidence: 0.840802431538461

00:22:06.154 --> 00:22:07.924 couldn't proceed and then the other

NOTE Confidence: 0.840802431538461

00:22:07.924 --> 00:22:09.730 you know schedule wise wasn't able

NOTE Confidence: 0.840802431538461

00:22:09.730 --> 00:22:11.820 to to connect and you know make

NOTE Confidence: 0.840802431538461

00:22:11.820 --> 00:22:14.380 it make it in for the test days.

NOTE Confidence: 0.840802431538461

00:22:14.380 --> 00:22:17.845 And so we had 1010 subjects complete.

NOTE Confidence: 0.840802431538461

00:22:17.850 --> 00:22:19.402 The first Test day,

NOTE Confidence: 0.840802431538461

00:22:19.402 --> 00:22:21.342 remember everyone got and at

NOTE Confidence: 0.840802431538461

00:22:21.342 --> 00:22:23.569 first the .1 make per cake and

NOTE Confidence: 0.840802431538461

00:22:23.569 --> 00:22:25.758 then the .3 make per kig dose.

NOTE Confidence: 0.840802431538461

00:22:25.760 --> 00:22:27.638 And usually the time between those

NOTE Confidence: 0.840802431538461

00:22:27.638 --> 00:22:29.569 two doses was usually a few days,

NOTE Confidence: 0.840802431538461

00:22:29.570 --> 00:22:33.310 at least 72 hours overall.

NOTE Confidence: 0.840802431538461

00:22:33.310 --> 00:22:35.165 And so out of these 10 subjects,

NOTE Confidence: 0.840802431538461

00:22:35.170 --> 00:22:39.018 we had three healthy controls and 7th press.

NOTE Confidence: 0.840802431538461

00:22:39.020 --> 00:22:41.550 This here is yes.

NOTE Confidence: 0.838743591428571

00:22:42.060 --> 00:22:44.209 Do you want to say how we?

NOTE Confidence: 0.838743591428571

00:22:44.210 --> 00:22:47.078 Decided whether someone would go from.

NOTE Confidence: 0.838743591428571

00:22:47.080 --> 00:22:48.700 Oh yes, yes to another.

NOTE Confidence: 0.876091802

00:22:49.450 --> 00:22:51.683 Right, right. So. You know we were

NOTE Confidence: 0.876091802

00:22:51.683 --> 00:22:54.759 as I was kind of saying before being

NOTE Confidence: 0.876091802

00:22:54.759 --> 00:22:57.296 very careful you wanted and this

NOTE Confidence: 0.876091802

00:22:57.296 --> 00:22:59.384 being you know opponent substance.

NOTE Confidence: 0.876091802

00:22:59.384 --> 00:23:02.352 We you know we asked every every

NOTE Confidence: 0.876091802

00:23:02.352 --> 00:23:05.125 subject if you know they if they

NOTE Confidence: 0.876091802

00:23:05.125 --> 00:23:07.431 were willing to come back for

NOTE Confidence: 0.876091802

00:23:07.431 --> 00:23:09.717 a second dose after the first.

NOTE Confidence: 0.876091802

00:23:09.720 --> 00:23:11.682 You know there was no there

NOTE Confidence: 0.876091802

00:23:11.682 --> 00:23:12.990 was no pressure whatsoever.

NOTE Confidence: 0.876091802

00:23:12.990 --> 00:23:15.105 You know just naturally them

NOTE Confidence: 0.876091802

00:23:15.105 --> 00:23:17.760 being here voluntary but also this

NOTE Confidence: 0.876091802

00:23:17.760 --> 00:23:20.060 independent to their their willingness

NOTE Confidence: 0.876091802

00:23:20.060 --> 00:23:22.398 to return we also looked at.

NOTE Confidence: 0.876091802

00:23:22.400 --> 00:23:24.619 Of a variety of things and assessing

NOTE Confidence: 0.876091802

00:23:24.619 --> 00:23:26.668 whether we felt it was appropriate

NOTE Confidence: 0.876091802

00:23:26.668 --> 00:23:28.383 for subjects to come back.

NOTE Confidence: 0.876091802

00:23:28.390 --> 00:23:30.950 So we would look at together all their

NOTE Confidence: 0.876091802

00:23:30.950 --> 00:23:33.197 readings of their blood pressures or

NOTE Confidence: 0.876091802

00:23:33.197 --> 00:23:35.182 heart rate, their subjective effects.

NOTE Confidence: 0.876091802

00:23:35.182 --> 00:23:35.990 You know,

NOTE Confidence: 0.876091802

00:23:35.990 --> 00:23:39.266 during the acute session and you know,

NOTE Confidence: 0.876091802

00:23:39.270 --> 00:23:41.028 during the entire session, you know,

NOTE Confidence: 0.876091802

00:23:41.030 --> 00:23:42.486 there was three or four of us,

NOTE Confidence: 0.876091802

00:23:42.490 --> 00:23:43.570 doctor Dsouza, myself,

NOTE Confidence: 0.876091802

00:23:43.570 --> 00:23:46.216 a research nurse in RA, you know,

NOTE Confidence: 0.876091802

00:23:46.216 --> 00:23:48.360 observing, writing down notes, etcetera.

NOTE Confidence: 0.876091802

00:23:48.360 --> 00:23:50.610 So taken together, you know,

NOTE Confidence: 0.876091802

00:23:50.610 --> 00:23:52.584 we we, we came to a consensus.

NOTE Confidence: 0.876091802

00:23:52.590 --> 00:23:55.846 As a team for each subject and you

NOTE Confidence: 0.876091802

00:23:55.846 --> 00:23:58.524 know whether to ultimately deem

NOTE Confidence: 0.876091802

00:23:58.524 --> 00:24:01.971 appropriate to proceed and yes question.

NOTE Confidence: 0.876091802

00:24:01.971 --> 00:24:02.528 So

NOTE Confidence: 0.881829585

00:24:02.540 --> 00:24:04.308 in the most places

NOTE Confidence: 0.793397974074074

00:24:04.320 --> 00:24:06.065 that are doing therapeutic psilocybin

NOTE Confidence: 0.793397974074074

00:24:06.065 --> 00:24:08.140 or following the protocol that Johns

NOTE Confidence: 0.793397974074074

00:24:08.140 --> 00:24:09.802 Hopkins developed 20 years ago where

NOTE Confidence: 0.793397974074074

00:24:09.802 --> 00:24:11.858 you got the two people sitting and

NOTE Confidence: 0.793397974074074

00:24:11.858 --> 00:24:13.733 providing her and sounds like you're

NOTE Confidence: 0.793397974074074

00:24:13.733 --> 00:24:16.050 setting is sort of more just straight

NOTE Confidence: 0.793397974074074

00:24:16.112 --> 00:24:18.416 observational and kind of more medicalized

NOTE Confidence: 0.793397974074074

00:24:18.416 --> 00:24:20.489 and not providing that kind of.

NOTE Confidence: 0.793397974074074

00:24:20.490 --> 00:24:21.630 Psychological support? What?

NOTE Confidence: 0.793397974074074

00:24:21.630 --> 00:24:23.873 What? How do you, how do you,

NOTE Confidence: 0.793397974074074

00:24:23.873 --> 00:24:25.319 how did you think about that?

00:24:25.730 --> 00:24:27.225 Yeah. So that's exactly what

00:24:27.225 --> 00:24:29.110 I was going to say here.

00:24:29.110 --> 00:24:31.630 So perfect timing.

00:24:31.630 --> 00:24:33.622 That's actually quite nice.

00:24:33.622 --> 00:24:36.058 So, so this is our test day,

00:24:36.060 --> 00:24:37.956 the test days happened in the

00:24:37.956 --> 00:24:40.420 you know in the bio studies unit

00:24:40.420 --> 00:24:42.877 BA which is on the 9th floor.

00:24:42.880 --> 00:24:45.816 We we ran these and in terms of

00:24:45.816 --> 00:24:48.349 the concept that was driving us,

00:24:48.350 --> 00:24:51.129 we wanted, we you know we really

00:24:51.129 --> 00:24:53.619 wanted to see you know what?

00:24:53.620 --> 00:24:57.428 What effects? Are due to the medication,

00:24:57.430 --> 00:24:59.530 the biology of what they're doing.

00:24:59.530 --> 00:25:02.514 And so unlike philosophy, which, you know,

00:25:02.514 --> 00:25:04.524 does, which are soliciting trial.

NOTE Confidence: 0.824778443636364

00:25:04.530 --> 00:25:07.362 We had a very we had a dedicated

NOTE Confidence: 0.824778443636364

00:25:07.362 --> 00:25:09.530 dosing room for just silybin.

NOTE Confidence: 0.824778443636364

00:25:09.530 --> 00:25:12.347 It had it had nice artwork on the walls.

NOTE Confidence: 0.824778443636364

00:25:12.350 --> 00:25:16.585 It had, you know, nice lighting plants.

NOTE Confidence: 0.824778443636364

00:25:16.590 --> 00:25:18.585 No no lava lamp.

NOTE Confidence: 0.824778443636364

00:25:18.585 --> 00:25:19.100 Are

NOTE Confidence: 0.874826147142857

00:25:19.110 --> 00:25:20.167 we allowed to have those I'm not

NOTE Confidence: 0.799214128666667

00:25:20.180 --> 00:25:23.978 even sure but but we had we had nice

NOTE Confidence: 0.799214128666667

00:25:23.978 --> 00:25:26.692 lighting but no love the land and

NOTE Confidence: 0.799214128666667

00:25:26.692 --> 00:25:28.946 and and background music you know we

NOTE Confidence: 0.799214128666667

00:25:28.946 --> 00:25:31.437 had a very actually a very doctor

NOTE Confidence: 0.799214128666667

00:25:31.437 --> 00:25:33.639 Sunshower had a very specific playlist

NOTE Confidence: 0.799214128666667

00:25:33.639 --> 00:25:36.052 that he designed for the trial which

NOTE Confidence: 0.799214128666667

00:25:36.052 --> 00:25:37.930 was well received by everyone but

NOTE Confidence: 0.799214128666667

00:25:37.997 --> 00:25:40.221 you know so that was silybin for DMT

NOTE Confidence: 0.799214128666667

00:25:40.221 --> 00:25:41.970 being that we wanted to really try

NOTE Confidence: 0.799214128666667

00:25:41.970 --> 00:25:44.232 and start to get at well you know if

NOTE Confidence: 0.799214128666667

00:25:44.232 --> 00:25:46.150 you don't have that those all those.

NOTE Confidence: 0.799214128666667

00:25:46.150 --> 00:25:48.460 Setting dimensions present what happened.

NOTE Confidence: 0.799214128666667

00:25:48.460 --> 00:25:50.585 So we specifically and intentionally

NOTE Confidence: 0.799214128666667

00:25:50.585 --> 00:25:53.848 wanted to make it as very, you know,

NOTE Confidence: 0.799214128666667

00:25:53.848 --> 00:25:56.256 not these words sterile but very simple,

NOTE Confidence: 0.799214128666667

00:25:56.260 --> 00:25:57.848 very hospitalized. You know,

NOTE Confidence: 0.799214128666667

00:25:57.848 --> 00:26:00.562 similar to how ketamine treatments are done.

NOTE Confidence: 0.799214128666667

00:26:00.562 --> 00:26:03.180 And I can make some comparison because

NOTE Confidence: 0.799214128666667

00:26:03.248 --> 00:26:05.718 I work in the the TRD service at the VA

NOTE Confidence: 0.799214128666667

00:26:05.787 --> 00:26:08.278 we're giving ketamine to our veterans.

NOTE Confidence: 0.799214128666667

00:26:08.278 --> 00:26:10.958 So you know, it was we did this and

NOTE Confidence: 0.799214128666667

00:26:10.958 --> 00:26:12.779 then one of our EEG booths,

NOTE Confidence: 0.799214128666667

00:26:12.780 --> 00:26:15.090 which is a square enclosed space,

NOTE Confidence: 0.799214128666667

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00:26:15.090 --> 00:26:16.802 you know, that's soundproof.

00:26:16.802 --> 00:26:18.942 There was a hospital grade

00:26:18.942 --> 00:26:21.140 reclining chair in it, you know,

00:26:21.140 --> 00:26:23.870 kind of dim overhead fluorescent lighting

00:26:23.870 --> 00:26:26.684 and no art on the walls, no music, you know,

00:26:26.684 --> 00:26:29.289 just doctor D'souza and myself and you know,

00:26:29.290 --> 00:26:32.450 the IV lines and you know,

00:26:32.450 --> 00:26:34.550 and that that was the entire setup and,

00:26:34.550 --> 00:26:36.486 you know, and so we stayed with them,

00:26:36.490 --> 00:26:37.346 you know,

00:26:37.346 --> 00:26:40.770 to be a source of support if needed.

00:26:40.770 --> 00:26:42.880 But, you know, our, our, our,

00:26:42.880 --> 00:26:45.580 our focus was to let subjects,

00:26:45.580 --> 00:26:47.700 you know, experience the effects.

00:26:47.700 --> 00:26:49.026 You know entirely.

00:26:49.026 --> 00:26:52.120 On their own and not really guide.

NOTE Confidence: 0.799214128666667

00:26:52.120 --> 00:26:54.630 So it was a very it was a very non

NOTE Confidence: 0.799214128666667

00:26:54.705 --> 00:26:57.655 directed approach by design and

NOTE Confidence: 0.799214128666667

00:26:57.655 --> 00:27:00.480 that and that's how we.

NOTE Confidence: 0.799214128666667

00:27:00.480 --> 00:27:02.590 When about conducting the doses,

NOTE Confidence: 0.848524062142857

00:27:03.010 --> 00:27:06.846 we decided. That he would not speak

NOTE Confidence: 0.848524062142857

00:27:06.846 --> 00:27:10.649 to the subjects for the first five.

NOTE Confidence: 0.848524062142857

00:27:10.650 --> 00:27:15.306 Minutes, because we were concerned that.

NOTE Confidence: 0.848524062142857

00:27:15.310 --> 00:27:17.842 Interacting them with them

NOTE Confidence: 0.848524062142857

00:27:17.842 --> 00:27:20.374 might disrupt the experience.

NOTE Confidence: 0.848524062142857

00:27:20.380 --> 00:27:23.556 So unless the subject reached out to us.

NOTE Confidence: 0.848524062142857

00:27:23.560 --> 00:27:25.920 And wanted to engage us.

NOTE Confidence: 0.848524062142857

00:27:25.920 --> 00:27:27.520 We kind of remain.

NOTE Confidence: 0.848524062142857

00:27:27.520 --> 00:27:29.120 Silent in the background,

NOTE Confidence: 0.848524062142857

00:27:29.120 --> 00:27:31.415 we were standing a few feet away from them.

NOTE Confidence: 0.848524062142857

00:27:31.420 --> 00:27:33.634 Even the instruction we gave the

NOTE Confidence: 0.848524062142857

00:27:33.634 --> 00:27:35.580 subject was to indicate to us,

NOTE Confidence: 0.848524062142857

00:27:35.580 --> 00:27:37.440 either by raising their hand,

NOTE Confidence: 0.848524062142857

00:27:37.440 --> 00:27:39.822 the first change that they noticed

NOTE Confidence: 0.848524062142857

00:27:39.822 --> 00:27:41.670 after the administration of PM.

NOTE Confidence: 0.848524062142857

00:27:41.670 --> 00:27:45.158 But otherwise we we we didn't say anything.

NOTE Confidence: 0.848524062142857

00:27:45.160 --> 00:27:47.862 I I guess the first interruption would

NOTE Confidence: 0.848524062142857

00:27:47.862 --> 00:27:50.540 have been the the blood pressure cuff

NOTE Confidence: 0.848524062142857

00:27:50.540 --> 00:27:52.820 being inflated at about 5 minutes.

NOTE Confidence: 0.848524062142857

00:27:52.820 --> 00:27:54.180 But otherwise we kept quiet

NOTE Confidence: 0.848524062142857

00:27:54.180 --> 00:27:55.540 because we can see anything.

NOTE Confidence: 0.848524062142857

00:27:55.540 --> 00:27:57.220 So there was just to be clear,

NOTE Confidence: 0.848524062142857

00:27:57.220 --> 00:27:59.465 no psychotherapy the way that

NOTE Confidence: 0.848524062142857

00:27:59.465 --> 00:28:02.360 psychotherapy is done for psychic studies.

NOTE Confidence: 0.821002704666667

00:28:02.370 --> 00:28:04.580 Yeah it it is worth I mean this is of

NOTE Confidence: 0.821002704666667

00:28:04.642 --> 00:28:06.609 course a super active issue in the

NOTE Confidence: 0.821002704666667

00:28:06.609 --> 00:28:09.091 in the field in which about which I

NOTE Confidence: 0.821002704666667

00:28:09.091 --> 00:28:10.852 don't have strong opinions but but

NOTE Confidence: 0.821002704666667

00:28:10.852 --> 00:28:12.056 it's with sure even what you just

NOTE Confidence: 0.821002704666667

00:28:12.056 --> 00:28:13.043 noticed they're two different things

NOTE Confidence: 0.821002704666667

00:28:13.043 --> 00:28:14.255 that you're trying to keep neutral.

NOTE Confidence: 0.821002704666667

00:28:14.260 --> 00:28:16.040 There's the environment and

NOTE Confidence: 0.821002704666667

00:28:16.040 --> 00:28:17.794 there's the guidance, right.

NOTE Confidence: 0.821002704666667

00:28:17.794 --> 00:28:20.692 So you could have an unmet actualized

NOTE Confidence: 0.821002704666667

00:28:20.692 --> 00:28:22.410 environment with no guidance.

NOTE Confidence: 0.821002704666667

00:28:22.410 --> 00:28:24.438 Have a medicalized environment with guidance.

NOTE Confidence: 0.821002704666667

00:28:24.440 --> 00:28:25.970 And so it's just you know,

NOTE Confidence: 0.821002704666667

00:28:25.970 --> 00:28:28.364 in think trying to wrap our heads

NOTE Confidence: 0.821002704666667

00:28:28.364 --> 00:28:30.305 around what matters and what doesn't

NOTE Confidence: 0.821002704666667

00:28:30.305 --> 00:28:32.368 and I have no idea and I'm just,

NOTE Confidence: 0.821002704666667

00:28:32.368 --> 00:28:33.448 I'm trying to keep these

NOTE Confidence: 0.821002704666667

00:28:33.448 --> 00:28:34.369 things straight in my head,

NOTE Confidence: 0.821002704666667

00:28:34.370 --> 00:28:35.520 but thank you for that,

NOTE Confidence: 0.821002704666667

00:28:35.520 --> 00:28:36.399 for that clarification.

NOTE Confidence: 0.821002704666667

00:28:36.399 --> 00:28:37.278 That's really helpful.

NOTE Confidence: 0.815396619166667

00:28:38.040 --> 00:28:40.020 Yes, I continue to struggle

NOTE Confidence: 0.815396619166667

00:28:40.020 --> 00:28:42.870 to keep them in my head too.

NOTE Confidence: 0.815396619166667

00:28:42.870 --> 00:28:45.640 And so just at 30 minutes we we gave them

NOTE Confidence: 0.815396619166667

00:28:45.715 --> 00:28:48.284 scales to you know assess the effects.

NOTE Confidence: 0.815396619166667

00:28:48.290 --> 00:28:50.486 So remember by about 30 minutes

NOTE Confidence: 0.815396619166667

00:28:50.486 --> 00:28:52.310 they basically resolved but you

NOTE Confidence: 0.815396619166667

00:28:52.310 --> 00:28:54.354 know they they were able to kind

NOTE Confidence: 0.815396619166667

00:28:54.354 --> 00:28:56.265 of capture what they felt were

NOTE Confidence: 0.815396619166667

00:28:56.265 --> 00:28:58.465 the peak effects and then again 2

NOTE Confidence: 0.815396619166667

00:28:58.465 --> 00:29:00.825 hour at the two hour mark and this

NOTE Confidence: 0.815396619166667

00:29:00.825 --> 00:29:03.634 is where we assess tolerability 2

NOTE Confidence: 0.815396619166667

00:29:03.634 --> 00:29:06.340 hours after receiving drug. OK.

NOTE Confidence: 0.858331661818182

00:29:06.390 --> 00:29:07.566 So we just just one other

NOTE Confidence: 0.858331661818182

00:29:07.566 --> 00:29:08.770 thing I wanted to mention.

NOTE Confidence: 0.858331661818182

00:29:08.770 --> 00:29:12.984 We chose to administer all those scales.

NOTE Confidence: 0.858331661818182

00:29:12.990 --> 00:29:15.924 When we were confident that the

NOTE Confidence: 0.858331661818182

00:29:15.924 --> 00:29:18.830 acute effects of BMD would be.

NOTE Confidence: 0.858331661818182

00:29:18.830 --> 00:29:20.916 Would have faded away because we were

NOTE Confidence: 0.858331661818182

00:29:20.916 --> 00:29:22.888 concerned that while under the influence,

NOTE Confidence: 0.858331661818182

00:29:22.890 --> 00:29:24.941 people may not be able to accurately

NOTE Confidence: 0.858331661818182

00:29:24.941 --> 00:29:27.109 describe or report what they were feeling.

NOTE Confidence: 0.858331661818182

00:29:27.110 --> 00:29:29.040 So we waited to yeah.

NOTE Confidence: 0.9151664

00:29:30.450 --> 00:29:34.040 Yes. OK, so let's start

NOTE Confidence: 0.9151664

00:29:34.040 --> 00:29:35.620 to present the results.

NOTE Confidence: 0.9151664

00:29:35.620 --> 00:29:37.852 Here's our demographic table.

NOTE Confidence: 0.9151664

00:29:37.852 --> 00:29:41.200 Notice that our our first three.

NOTE Confidence: 0.9151664

00:29:41.200 --> 00:29:43.300 Rows are healthy control subjects

NOTE Confidence: 0.9151664

00:29:43.300 --> 00:29:45.400 and then the remaining seven

NOTE Confidence: 0.9151664

00:29:45.468 --> 00:29:47.500 are are depressed individuals.

NOTE Confidence: 0.9151664

00:29:47.500 --> 00:29:53.060 Overall, there are subjects had about

NOTE Confidence: 0.9151664

00:29:53.060 --> 00:29:56.533 an illness burden of at least 20

NOTE Confidence: 0.9151664

00:29:56.533 --> 00:29:59.795 years and most of them were educated,

NOTE Confidence: 0.9151664

00:29:59.800 --> 00:30:02.808 quite educated graduate degrees.

NOTE Confidence: 0.9151664

00:30:02.810 --> 00:30:04.370 Previous academic use was,

NOTE Confidence: 0.9151664

00:30:04.370 --> 00:30:05.848 you know, very limited.

NOTE Confidence: 0.9151664

00:30:05.848 --> 00:30:07.942 You know, there was one or

NOTE Confidence: 0.9151664

00:30:07.942 --> 00:30:09.963 two discrete at the uses for

NOTE Confidence: 0.9151664

00:30:09.963 --> 00:30:11.533 for maybe half of subjects.

NOTE Confidence: 0.873526786

00:30:13.570 --> 00:30:16.100 And notably in terms of, you know,

NOTE Confidence: 0.873526786

00:30:16.100 --> 00:30:17.625 what makes them treatment resistant,

NOTE Confidence: 0.873526786

00:30:17.630 --> 00:30:19.150 looking at the, you know,

NOTE Confidence: 0.873526786

00:30:19.150 --> 00:30:21.740 past past antidepressant trials failed,

NOTE Confidence: 0.873526786

00:30:21.740 --> 00:30:23.434 you know, we had quite a few

NOTE Confidence: 0.873526786

00:30:23.434 --> 00:30:25.168 subjects that you know did not have,

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NOTE Confidence: 0.873526786

00:30:25.170 --> 00:30:27.170 you know, relief with ketamine,

NOTE Confidence: 0.873526786

00:30:27.170 --> 00:30:30.850 ECT, RTMS and you know,

NOTE Confidence: 0.873526786

00:30:30.850 --> 00:30:33.490 really the most robust

NOTE Confidence: 0.873526786

00:30:33.490 --> 00:30:35.854 treatments that are offered.

NOTE Confidence: 0.873526786

00:30:35.854 --> 00:30:38.372 So you know, so these are pretty,

NOTE Confidence: 0.873526786

00:30:38.372 --> 00:30:39.562 these were pretty ill patients.

NOTE Confidence: 0.828734964

00:30:42.130 --> 00:30:45.434 And in terms of our healthy controls and

NOTE Confidence: 0.828734964

00:30:45.434 --> 00:30:48.994 to also note no one had used DMT before

NOTE Confidence: 0.828734964

00:30:48.994 --> 00:30:52.457 that that we were also made certain of.

NOTE Confidence: 0.828734964

00:30:52.460 --> 00:30:54.266 OK. So next we'll be going through

NOTE Confidence: 0.828734964

00:30:54.266 --> 00:30:56.289 the results in the order of the

NOTE Confidence: 0.828734964

00:30:56.289 --> 00:30:57.700 outcome measures, as I said.

NOTE Confidence: 0.828734964

00:30:57.700 --> 00:31:00.616 So say in terms of safety, looking at our,

NOTE Confidence: 0.828734964

00:31:00.616 --> 00:31:02.776 our cardiac parameters going from

NOTE Confidence: 0.828734964

00:31:02.776 --> 00:31:05.998 left to right just to Orient everyone,

NOTE Confidence: 0.828734964

00:31:06.000 --> 00:31:08.856 the red lines are going to represent

NOTE Confidence: 0.828734964

00:31:08.860 --> 00:31:11.478 the blue lines represent the .1 dose,

NOTE Confidence: 0.828734964

00:31:11.480 --> 00:31:13.783 so the the the first session and

NOTE Confidence: 0.828734964

00:31:13.783 --> 00:31:15.870 then the red lines present.

NOTE Confidence: 0.828734964

00:31:15.870 --> 00:31:19.082 The .3 dose the second session and

NOTE Confidence: 0.828734964

00:31:19.082 --> 00:31:21.406 so going and the green arrows here,

NOTE Confidence: 0.828734964

00:31:21.410 --> 00:31:24.476 they represent the time point at which

NOTE Confidence: 0.828734964

00:31:24.476 --> 00:31:28.842 the DMT I bolus was given over 30 to 60

NOTE Confidence: 0.828734964

00:31:28.842 --> 00:31:31.406 seconds just just so everyone is clear.

NOTE Confidence: 0.828734964

00:31:31.410 --> 00:31:34.470 And so going from left to right we see,

NOTE Confidence: 0.828734964

00:31:34.470 --> 00:31:37.718 we see an expected increase in all three

NOTE Confidence: 0.828734964

00:31:37.718 --> 00:31:39.741 measures, systolic blood pressure,

NOTE Confidence: 0.828734964

00:31:39.741 --> 00:31:42.963 diastolic blood pressure and heart rates,

NOTE Confidence: 0.828734964

00:31:42.970 --> 00:31:46.600 the magnitude of the increase.

NOTE Confidence: 0.828734964

00:31:46.600 --> 00:31:47.182 I would say,

NOTE Confidence: 0.828734964

00:31:47.182 --> 00:31:49.100 and you know I know there are many experts

50

NOTE Confidence: 0.828734964

00:31:49.100 --> 00:31:50.892 here in the audience and know better.

NOTE Confidence: 0.828734964

00:31:50.900 --> 00:31:51.644 You know,

NOTE Confidence: 0.828734964

00:31:51.644 --> 00:31:52.760 comparing to ketamine,

NOTE Confidence: 0.828734964

00:31:52.760 --> 00:31:55.060 it's also associated with a

NOTE Confidence: 0.828734964

00:31:55.060 --> 00:31:57.360 transient increase in blood pressure.

NOTE Confidence: 0.828734964

00:31:57.360 --> 00:31:59.286 It seems about similar from what

NOTE Confidence: 0.828734964

00:31:59.286 --> 00:32:01.620 I get from my understanding.

NOTE Confidence: 0.890006884705882

00:32:03.900 --> 00:32:05.745 But, you know, one of the one thing I

NOTE Confidence: 0.890006884705882

00:32:05.745 --> 00:32:07.716 think that is different is the heart rate.

NOTE Confidence: 0.890006884705882

00:32:07.720 --> 00:32:11.600 That was pretty impressively increased

NOTE Confidence: 0.890006884705882

00:32:11.600 --> 00:32:14.704 acutely after administering DMT.

NOTE Confidence: 0.890006884705882

00:32:14.710 --> 00:32:18.010 Not of that being more.

NOTE Confidence: 0.890006884705882

00:32:18.010 --> 00:32:20.749 That being dose.

NOTE Confidence: 0.890006884705882

00:32:20.750 --> 00:32:22.622 Difference between doses for

NOTE Confidence: 0.890006884705882

00:32:22.622 --> 00:32:24.962 the other for blood pressure,

NOTE Confidence: 0.890006884705882

00:32:24.970 --> 00:32:26.738 they were fairly similar.

NOTE Confidence: 0.890006884705882

00:32:26.738 --> 00:32:28.506 Heart rate still wasn't

NOTE Confidence: 0.890006884705882

00:32:28.506 --> 00:32:29.802 statistically significant overall

NOTE Confidence: 0.890006884705882

00:32:29.802 --> 00:32:31.567 given all these time points,

NOTE Confidence: 0.890006884705882

00:32:31.570 --> 00:32:34.585 but you know at at this one time point

NOTE Confidence: 0.890006884705882

00:32:34.585 --> 00:32:37.298 certainly that was significantly different.

NOTE Confidence: 0.890006884705882

00:32:37.300 --> 00:32:40.219 OK, so next here we have a

NOTE Confidence: 0.890006884705882

00:32:40.219 --> 00:32:42.200 graphic illustration of our

NOTE Confidence: 0.890006884705882

00:32:42.200 --> 00:32:44.138 psychedelic affect ratings.

NOTE Confidence: 0.890006884705882

00:32:44.140 --> 00:32:47.636 So this this is our modified AC scale.

NOTE Confidence: 0.890006884705882

00:32:47.640 --> 00:32:50.832 These are the 23 items that query

NOTE Confidence: 0.890006884705882

00:32:50.832 --> 00:32:52.960 that the psychedelic effects.

NOTE Confidence: 0.890006884705882

00:32:52.960 --> 00:32:54.480 And you'll notice, you know,

NOTE Confidence: 0.890006884705882

00:32:54.480 --> 00:32:57.640 the red is quite long and so right

NOTE Confidence: 0.890006884705882

00:32:57.640 --> 00:33:00.278 there more intense the .3 dose.

NOTE Confidence: 0.890006884705882

00:33:00.280 --> 00:33:02.220 The the bars here represent

NOTE Confidence: 0.890006884705882

00:33:02.220 --> 00:33:04.160 standard errors of the mean.

NOTE Confidence: 0.890006884705882

00:33:04.160 --> 00:33:05.812 And I guess I'd like to bring

NOTE Confidence: 0.890006884705882

00:33:05.812 --> 00:33:07.228 your attention to a few of the.

NOTE Confidence: 0.890006884705882

00:33:07.230 --> 00:33:09.450 Items here.

NOTE Confidence: 0.890006884705882

00:33:09.450 --> 00:33:11.460 You know the last item here,

NOTE Confidence: 0.890006884705882

00:33:11.460 --> 00:33:13.410 how intense was the drug

NOTE Confidence: 0.890006884705882

00:33:13.410 --> 00:33:14.580 experience on average?

NOTE Confidence: 0.890006884705882

00:33:14.580 --> 00:33:16.530 You know, people found the .3

NOTE Confidence: 0.890006884705882

00:33:16.530 --> 00:33:18.897 dose to be about 95 out of 100.

NOTE Confidence: 0.890006884705882

00:33:18.900 --> 00:33:21.960 So that that does seem to be quite telling

NOTE Confidence: 0.890006884705882

00:33:21.960 --> 00:33:25.490 of just how intense the the experience was.

NOTE Confidence: 0.890006884705882

00:33:25.490 --> 00:33:28.140 Also subjects found that the

NOTE Confidence: 0.890006884705882

00:33:28.140 --> 00:33:31.139 experience was much more challenging,

NOTE Confidence: 0.890006884705882

00:33:31.140 --> 00:33:32.740 but the .3 dose,

NOTE Confidence: 0.890006884705882

00:33:32.740 --> 00:33:36.020 you know about 65 versus.

NOTE Confidence: 0.890006884705882

53

00:33:36.020 --> 00:33:39.140 You know 25.

NOTE Confidence: 0.890006884705882

00:33:39.140 --> 00:33:40.355 But they also,

NOTE Confidence: 0.890006884705882

00:33:40.355 --> 00:33:43.190 you see they found the those the

NOTE Confidence: 0.890006884705882

00:33:43.285 --> 00:33:46.480 experience being much more meaningful

NOTE Confidence: 0.890006884705882

00:33:46.480 --> 00:33:49.176 and so the ones with the asterisks here,

NOTE Confidence: 0.890006884705882

00:33:49.180 --> 00:33:51.116 these are all significantly

NOTE Confidence: 0.890006884705882

00:33:51.116 --> 00:33:54.020 different between those the the two

NOTE Confidence: 0.890006884705882

00:33:54.103 --> 00:33:56.545 stars means you know it's greater

NOTE Confidence: 0.890006884705882

00:33:56.545 --> 00:33:59.231 smaller P value and this was

NOTE Confidence: 0.890006884705882

00:33:59.231 --> 00:34:03.350 corrected for false discovery rates.

NOTE Confidence: 0.890006884705882

00:34:03.350 --> 00:34:04.310 And, you know,

NOTE Confidence: 0.890006884705882

00:34:04.310 --> 00:34:06.452 there's only so much that, you know,

NOTE Confidence: 0.890006884705882

00:34:06.452 --> 00:34:07.536 these, the graphic illustrations

NOTE Confidence: 0.890006884705882

00:34:07.536 --> 00:34:08.800 and scales can tell us.

NOTE Confidence: 0.890006884705882

00:34:08.800 --> 00:34:11.299 So included here we have one of

NOTE Confidence: 0.890006884705882

00:34:11.299 --> 00:34:13.070 our healthy control subjects.

NOTE Confidence: 0.890006884705882

00:34:13.070 --> 00:34:14.930 Now that, you know, went,

NOTE Confidence: 0.890006884705882

00:34:14.930 --> 00:34:17.346 I was able to draw for us what

NOTE Confidence: 0.890006884705882

00:34:17.346 --> 00:34:19.509 what their experience was like.

NOTE Confidence: 0.890006884705882

00:34:19.510 --> 00:34:23.166 So I'll show you a few drawings so,

NOTE Confidence: 0.890006884705882

00:34:23.166 --> 00:34:26.054 you know, it's written here, you know,

NOTE Confidence: 0.890006884705882

00:34:26.054 --> 00:34:28.166 this turns into a cavernous room

NOTE Confidence: 0.890006884705882

00:34:28.166 --> 00:34:29.850 that's depicted in the drawing.

NOTE Confidence: 0.890006884705882

00:34:29.850 --> 00:34:30.603 It was domed,

NOTE Confidence: 0.890006884705882

00:34:30.603 --> 00:34:32.360 and the ceiling and walls had the

NOTE Confidence: 0.890006884705882

00:34:32.414 --> 00:34:34.066 same sort of look as the mucks.

NOTE Confidence: 0.890006884705882

00:34:34.070 --> 00:34:36.220 Filling in the attached picture,

NOTE Confidence: 0.890006884705882

00:34:36.220 --> 00:34:37.720 the main difference is that

NOTE Confidence: 0.890006884705882

00:34:37.720 --> 00:34:39.909 everything was made out of light and

NOTE Confidence: 0.890006884705882

00:34:39.909 --> 00:34:42.514 was moving quite quickly and so.

NOTE Confidence: 0.890006884705882

00:34:42.514 --> 00:34:43.858 So yeah.

NOTE Confidence: 0.60237566

00:34:46.270 --> 00:34:49.130 It's smooth solids, tiled shapes,

NOTE Confidence: 0.60237566

00:34:49.130 --> 00:34:53.310 tiled shapes, interesting puzzle like.

NOTE Confidence: 0.60237566

00:34:53.310 --> 00:34:58.378 Things. Looks like a double Helix there.

NOTE Confidence: 0.60237566

00:34:58.380 --> 00:35:01.216 And so this was the mosque picture

NOTE Confidence: 0.60237566

00:35:01.216 --> 00:35:02.480 that they're referring to.

NOTE Confidence: 0.60237566

00:35:02.480 --> 00:35:04.204 So apparently, you know,

NOTE Confidence: 0.60237566

00:35:04.204 --> 00:35:07.812 their experience was a light. You know,

NOTE Confidence: 0.60237566

00:35:07.812 --> 00:35:11.280 complex that looks something like this.

NOTE Confidence: 0.60237566

00:35:11.280 --> 00:35:14.940 Seems pretty impressive to me.

NOTE Confidence: 0.60237566

00:35:14.940 --> 00:35:17.192 Then more more details.

NOTE Confidence: 0.60237566

00:35:17.192 --> 00:35:20.007 So this then gave way

NOTE Confidence: 0.60237566

00:35:20.007 --> 00:35:22.759 depicted in the entity space,

NOTE Confidence: 0.60237566

00:35:22.760 --> 00:35:25.154 drawing what felt like a different

NOTE Confidence: 0.60237566

00:35:25.154 --> 00:35:27.818 a temporal realm with its own order.

NOTE Confidence: 0.60237566

00:35:27.820 --> 00:35:30.564 Here all surfaces were smooth and uniform in

NOTE Confidence: 0.60237566

00:35:30.564 --> 00:35:33.516 color as as as if they were enamel painted.

NOTE Confidence: 0.60237566

00:35:33.520 --> 00:35:35.794 The two flying beings pictured had

NOTE Confidence: 0.60237566

00:35:35.794 --> 00:35:38.381 round bodies that were smooth but Matt

NOTE Confidence: 0.60237566

00:35:38.381 --> 00:35:40.680 gun metal Gray as per the back wings.

NOTE Confidence: 0.60237566

00:35:40.680 --> 00:35:43.104 Their color and texture were like that of

NOTE Confidence: 0.60237566

00:35:43.104 --> 00:35:45.288 those glossy dark red KitchenAid mixers.

NOTE Confidence: 0.60237566

00:35:45.290 --> 00:35:46.952 I don't remember the color of

NOTE Confidence: 0.60237566

00:35:46.952 --> 00:35:48.690 their front winglets or appendages,

NOTE Confidence: 0.60237566

00:35:48.690 --> 00:35:50.266 but I do remember that they were vague,

NOTE Confidence: 0.60237566

00:35:50.270 --> 00:35:51.206 being vaguely there.

NOTE Confidence: 0.60237566

00:35:51.206 --> 00:35:53.078 They had no eyes or faces,

NOTE Confidence: 0.60237566

00:35:53.080 --> 00:35:55.738 but were somehow looking at me.

NOTE Confidence: 0.60237566

00:35:55.740 --> 00:35:58.629 So I mean that's what these are referring to.

NOTE Confidence: 0.883705195714286

00:35:59.020 --> 00:36:01.428 One of the reasons we thought we

NOTE Confidence: 0.883705195714286

00:36:01.428 --> 00:36:03.938 would share this with you is because.

NOTE Confidence: 0.883705195714286

00:36:03.940 --> 00:36:06.499 Anecdotally, at least.

NOTE Confidence: 0.883705195714286

00:36:06.500 --> 00:36:09.220 There are a number of reports of people.

NOTE Confidence: 0.883705195714286

00:36:09.220 --> 00:36:13.100 To claim. To see entities or

NOTE Confidence: 0.883705195714286

00:36:13.100 --> 00:36:15.700 feel the presence of entities.

NOTE Confidence: 0.883705195714286

00:36:15.700 --> 00:36:17.500 After the CPMT.

NOTE Confidence: 0.840820142272727

00:36:19.940 --> 00:36:21.669 And so I think this was the

NOTE Confidence: 0.840820142272727

00:36:21.669 --> 00:36:23.163 only subject in our entire

NOTE Confidence: 0.840820142272727

00:36:23.163 --> 00:36:25.233 subject list of 10 subjects who

NOTE Confidence: 0.840820142272727

00:36:25.233 --> 00:36:26.560 reported anything like this,

NOTE Confidence: 0.840820142272727

00:36:26.560 --> 00:36:30.760 but what it highlighted for me is.

NOTE Confidence: 0.840820142272727

00:36:30.760 --> 00:36:33.328 What you bring to the occasion

NOTE Confidence: 0.840820142272727

00:36:33.330 --> 00:36:34.800 is likely what's going to.

NOTE Confidence: 0.86801729

00:36:37.280 --> 00:36:38.246 Influence your experience.

NOTE Confidence: 0.86801729

00:36:38.246 --> 00:36:39.856 So this is a subject

NOTE Confidence: 0.86801729

00:36:39.856 --> 00:36:41.479 from the Divinity school.

NOTE Confidence: 0.86801729

00:36:41.480 --> 00:36:45.084 So no, no surprise that he saw

NOTE Confidence: 0.86801729

00:36:45.084 --> 00:36:47.408 the inside of a mosque and that's

00:36:47.408 --> 00:36:49.760 how he described it and and many

00:36:49.760 --> 00:36:51.861 of many of his interpretations

00:36:51.861 --> 00:36:54.757 of these perceptual alterations.

00:36:54.760 --> 00:36:57.490 Had religious connotations.

00:36:59.790 --> 00:37:03.038 Yeah, it it was remarkable just to mention

00:37:03.038 --> 00:37:05.576 anecdotally that a lot of the perceptual.

00:37:05.580 --> 00:37:08.148 Changes that subject experience did have,

00:37:08.150 --> 00:37:09.726 you know, temporal relation

00:37:09.726 --> 00:37:12.090 to things they had seen and.

00:37:12.090 --> 00:37:13.945 Recent like the day before the experience

00:37:13.945 --> 00:37:15.740 or you know something actually,

00:37:15.740 --> 00:37:17.420 you know, long standing and you know

00:37:17.420 --> 00:37:19.367 maybe in their subconscious so to speak,

00:37:19.370 --> 00:37:20.710 but that's, you know,

00:37:20.710 --> 00:37:22.960 for another sort of talk. OK.

00:37:22.960 --> 00:37:26.380 So move back to our results.

NOTE Confidence: 0.871832387333333

00:37:26.380 --> 00:37:30.433 So these are the the the assessments of

NOTE Confidence: 0.871832387333333

00:37:30.433 --> 00:37:33.600 using the psychotomimetic effects scale.

NOTE Confidence: 0.871832387333333

00:37:33.600 --> 00:37:36.144 So as you can see there was an

NOTE Confidence: 0.871832387333333

00:37:36.144 --> 00:37:38.792 acute elevation much that in the

NOTE Confidence: 0.871832387333333

00:37:38.792 --> 00:37:41.307 with both doses the difference

NOTE Confidence: 0.871832387333333

00:37:41.307 --> 00:37:44.657 being more significant than the .3.

NOTE Confidence: 0.871832387333333

00:37:44.660 --> 00:37:46.754 Notably you see at baseline they're

NOTE Confidence: 0.871832387333333

00:37:46.754 --> 00:37:49.226 being you know it's it wasn't a

NOTE Confidence: 0.871832387333333

00:37:49.226 --> 00:37:51.242 negligible you know baseline and the

NOTE Confidence: 0.871832387333333

00:37:51.242 --> 00:37:53.832 next slide look if we break it down into

NOTE Confidence: 0.871832387333333

00:37:53.832 --> 00:37:55.928 its six subscales we can understand.

NOTE Confidence: 0.871832387333333

00:37:55.928 --> 00:37:58.626 A little bit better you know what

NOTE Confidence: 0.871832387333333

00:37:58.626 --> 00:38:00.719 what what the PSI was picking up

NOTE Confidence: 0.871832387333333

00:38:00.719 --> 00:38:03.464 and so the only two scales that

NOTE Confidence: 0.871832387333333

00:38:03.464 --> 00:38:05.539 were significant were the perceptual

NOTE Confidence: 0.871832387333333

00:38:05.540 --> 00:38:07.704 distortion and cognitive disorganization.

NOTE Confidence: 0.871832387333333

00:38:07.704 --> 00:38:11.719 The other four were not and you know

NOTE Confidence: 0.871832387333333

00:38:11.719 --> 00:38:14.620 I guess this here tells us what you

NOTE Confidence: 0.871832387333333

00:38:14.620 --> 00:38:17.140 saw before which was that baseline

NOTE Confidence: 0.871832387333333

00:38:17.140 --> 00:38:19.608 our depressed subjects reported more

NOTE Confidence: 0.871832387333333

00:38:19.608 --> 00:38:22.027 Antonia makes sense but that also

NOTE Confidence: 0.871832387333333

00:38:22.027 --> 00:38:23.472 you know brings really important

NOTE Confidence: 0.871832387333333

00:38:23.472 --> 00:38:25.480 point to stand that now it's really

NOTE Confidence: 0.871832387333333

00:38:25.480 --> 00:38:26.850 important to look at the.

NOTE Confidence: 0.871832387333333

00:38:26.850 --> 00:38:28.968 Change in the effects because if

NOTE Confidence: 0.871832387333333

00:38:28.968 --> 00:38:31.702 one just looks at the objective one

NOTE Confidence: 0.871832387333333

00:38:31.702 --> 00:38:34.198 time point that may miss something,

NOTE Confidence: 0.871832387333333

00:38:34.200 --> 00:38:36.839 especially when we're talking about you know,

NOTE Confidence: 0.871832387333333

00:38:36.840 --> 00:38:39.068 depressed individuals who are

NOTE Confidence: 0.871832387333333

00:38:39.068 --> 00:38:41.853 experiencing symptoms that are affecting,

NOTE Confidence: 0.871832387333333

00:38:41.860 --> 00:38:42.808 you know,

NOTE Confidence: 0.871832387333333

00:38:42.808 --> 00:38:44.704 their experiences including you

NOTE Confidence: 0.871832387333333

00:38:44.704 --> 00:38:46.600 know their perception etcetera.

NOTE Confidence: 0.871832387333333

00:38:46.600 --> 00:38:47.580 Sharif.

NOTE Confidence: 0.871832387333333

00:38:47.580 --> 00:38:48.045 Yes.

NOTE Confidence: 0.871832387333333

00:38:48.045 --> 00:38:48.510 So

NOTE Confidence: 0.836401929

00:38:48.520 --> 00:38:50.832 that what you have is the 30 minute

NOTE Confidence: 0.836401929

00:38:50.832 --> 00:38:52.885 time point that's the scale is

NOTE Confidence: 0.836401929

00:38:52.885 --> 00:38:54.645 administered at 30 minutes after

NOTE Confidence: 0.836401929

00:38:54.645 --> 00:38:57.388 the acute effects have dissipated.

NOTE Confidence: 0.836401929

00:38:57.390 --> 00:38:59.922 Yes. And are they asked to rate

NOTE Confidence: 0.836401929

00:38:59.922 --> 00:39:02.125 their memory of the maximum effect

NOTE Confidence: 0.836401929

00:39:02.125 --> 00:39:05.553 within the last 30 minutes? Yes. OK.

NOTE Confidence: 0.836401929

00:39:05.553 --> 00:39:07.497 And then at the 120 minute time point

NOTE Confidence: 0.836401929

00:39:07.497 --> 00:39:09.254 and at the -, 60 minute time point,

NOTE Confidence: 0.836401929

00:39:09.254 --> 00:39:11.035 I presume they're asked to rate how

NOTE Confidence: 0.836401929

00:39:11.035 --> 00:39:13.240 they're feeling right now. Yes.

NOTE Confidence: 0.691046962

00:39:13.490 --> 00:39:14.962 So just to clarification,

NOTE Confidence: 0.691046962

00:39:14.962 --> 00:39:16.620 so at mine, at baseline,

NOTE Confidence: 0.691046962

00:39:16.620 --> 00:39:18.470 they asked about how they're

NOTE Confidence: 0.691046962

00:39:18.470 --> 00:39:20.302 feeling at that moment at

NOTE Confidence: 0.691046962

00:39:20.302 --> 00:39:22.492 30 minutes, they're asking,

NOTE Confidence: 0.691046962

00:39:22.492 --> 00:39:25.736 they're asked to integrate.

NOTE Confidence: 0.691046962

00:39:25.740 --> 00:39:27.847 At the time from from the time

NOTE Confidence: 0.691046962

00:39:27.847 --> 00:39:29.764 they received the injection and

NOTE Confidence: 0.691046962

00:39:29.764 --> 00:39:32.452 then at the 120 minute time point

NOTE Confidence: 0.691046962

00:39:32.452 --> 00:39:34.640 they asked about what happened

NOTE Confidence: 0.691046962

00:39:34.640 --> 00:39:37.310 between plus 30 and plus 1/20.

NOTE Confidence: 0.691046962

00:39:37.310 --> 00:39:39.050 To report the maximal effects.

NOTE Confidence: 0.767725240909091

00:39:40.570 --> 00:39:42.313 So, OK. And and at at the

NOTE Confidence: 0.767725240909091

00:39:42.313 --> 00:39:43.290 30 minutes they're at,

NOTE Confidence: 0.767725240909091

00:39:43.290 --> 00:39:44.340 they're not asking for the peak,

NOTE Confidence: 0.767725240909091

00:39:44.340 --> 00:39:45.424 to report the peak,

NOTE Confidence: 0.767725240909091

00:39:45.424 --> 00:39:46.508 they're asked to integrate,

NOTE Confidence: 0.74101996

00:39:47.250 --> 00:39:49.320 integrate, but report the highest.

NOTE Confidence: 0.768173591

00:39:50.910 --> 00:39:52.261 Which is. And if you do ask

NOTE Confidence: 0.768173591

00:39:52.261 --> 00:39:53.116 people to integrate, they

NOTE Confidence: 0.768173591

00:39:53.116 --> 00:39:54.496 usually report the peak anyways.

NOTE Confidence: 0.714977084

00:39:56.070 --> 00:39:58.510 So that that missed that, yeah,

NOTE Confidence: 0.714977084

00:39:58.510 --> 00:39:59.870 that's important point. Thanks.

NOTE Confidence: 0.5219478

00:40:01.920 --> 00:40:03.590 And that is that

NOTE Confidence: 0.656839003333333

00:40:03.590 --> 00:40:05.682 increase in anhedonia 30 minutes

NOTE Confidence: 0.656839003333333

00:40:05.682 --> 00:40:06.926 that was not significant.

NOTE Confidence: 0.81636779

00:40:08.410 --> 00:40:09.990 No, it was not OK,

NOTE Confidence: 0.80190595

00:40:10.040 --> 00:40:12.488 but it's kind of. It's if

NOTE Confidence: 0.80190595

00:40:12.488 --> 00:40:14.468 it's real, it's odd, but

NOTE Confidence: 0.773068446666667

00:40:14.530 --> 00:40:16.679 it is. Yes, it is odd. Yes.

NOTE Confidence: 0.773068446666667

00:40:16.679 --> 00:40:18.422 And that's going to show up again

NOTE Confidence: 0.773068446666667

00:40:18.422 --> 00:40:20.338 actually in another scale. Good.

NOTE Confidence: 0.773068446666667

00:40:20.338 --> 00:40:23.010 Good catch, doctor fenninger.

NOTE Confidence: 0.773068446666667

00:40:23.010 --> 00:40:26.384 OK, so next we have our last,

NOTE Confidence: 0.773068446666667

00:40:26.390 --> 00:40:29.070 our second to last result related to safety.

NOTE Confidence: 0.773068446666667

00:40:29.070 --> 00:40:32.490 And this is our AE or adverse event table.

NOTE Confidence: 0.773068446666667

00:40:32.490 --> 00:40:36.474 So again, here we have all 10 subjects.

NOTE Confidence: 0.773068446666667

00:40:36.480 --> 00:40:39.384 You know. Grossly speaking,

NOTE Confidence: 0.773068446666667

00:40:39.384 --> 00:40:42.920 overall the effect the adverse events

NOTE Confidence: 0.773068446666667

00:40:42.920 --> 00:40:46.040 that are subject experience were mild

NOTE Confidence: 0.773068446666667

00:40:46.127 --> 00:40:49.361 and they most often occurred during the

NOTE Confidence: 0.773068446666667

00:40:49.361 --> 00:40:52.899 onset of effects being in that zero to 10,

NOTE Confidence: 0.773068446666667

00:40:52.900 --> 00:40:56.330 zero to 20 time point.

NOTE Confidence: 0.773068446666667

00:40:56.330 --> 00:40:59.065 Qualitatively, the actual effects that

NOTE Confidence: 0.773068446666667

00:40:59.065 --> 00:41:01.800 they experienced were relatively varied.

NOTE Confidence: 0.773068446666667

00:41:01.800 --> 00:41:04.248 There wasn't really any specific thing

NOTE Confidence: 0.773068446666667

00:41:04.248 --> 00:41:06.969 that seemed to really ring true for

NOTE Confidence: 0.773068446666667

00:41:06.969 --> 00:41:09.349 for the most more subjects than not.

NOTE Confidence: 0.773068446666667

00:41:09.350 --> 00:41:11.710 So we had not anxiety,

NOTE Confidence: 0.773068446666667

00:41:11.710 --> 00:41:15.730 hypertension, nausea,

NOTE Confidence: 0.773068446666667

00:41:15.730 --> 00:41:17.010 those were the main things.

NOTE Confidence: 0.773068446666667

00:41:17.010 --> 00:41:18.978 Some Lightheadedness kind of goes a

NOTE Confidence: 0.773068446666667

00:41:18.978 --> 00:41:21.489 little bit with the nausea and anxiety,

NOTE Confidence: 0.773068446666667

00:41:21.490 --> 00:41:23.900 but very important to emphasize

NOTE Confidence: 0.773068446666667

00:41:23.900 --> 00:41:26.890 now is that we did have.

NOTE Confidence: 0.773068446666667

00:41:26.890 --> 00:41:29.402 One serious adverse event.

NOTE Confidence: 0.773068446666667

00:41:29.402 --> 00:41:34.700 And that was related to subject #5 here.

NOTE Confidence: 0.773068446666667

00:41:34.700 --> 00:41:36.989 So this is one of our depressed

NOTE Confidence: 0.773068446666667

00:41:36.989 --> 00:41:39.450 subjects and we're actually going to go

NOTE Confidence: 0.773068446666667

00:41:39.450 --> 00:41:41.900 through that in some detail right now.

NOTE Confidence: 0.773068446666667

00:41:41.900 --> 00:41:44.357 So this this table here is the

NOTE Confidence: 0.773068446666667

00:41:44.357 --> 00:41:47.330 is the time points and the the

NOTE Confidence: 0.773068446666667

00:41:47.330 --> 00:41:49.625 details of exactly what happened

NOTE Confidence: 0.773068446666667

00:41:49.625 --> 00:41:52.430 for this serious adverse event.

NOTE Confidence: 0.773068446666667

00:41:52.430 --> 00:41:54.008 So, you know,

NOTE Confidence: 0.773068446666667

00:41:54.008 --> 00:41:57.690 basically this at from the five minute

NOTE Confidence: 0.773068446666667

00:41:57.799 --> 00:42:01.747 time point after administering the DMT,

NOTE Confidence: 0.773068446666667

00:42:01.750 --> 00:42:05.782 we noticed the the blood pressure

NOTE Confidence: 0.773068446666667

00:42:05.782 --> 00:42:10.130 and pulse in tandem start to drop.

NOTE Confidence: 0.773068446666667

00:42:10.130 --> 00:42:13.790 And so we see here at the zero time point,

NOTE Confidence: 0.773068446666667

00:42:13.790 --> 00:42:15.435 their baseline is their blood

NOTE Confidence: 0.773068446666667

00:42:15.435 --> 00:42:17.450 pressure is on the lower side,

NOTE Confidence: 0.773068446666667

00:42:17.450 --> 00:42:19.570 108 / 60 heart rate,

NOTE Confidence: 0.773068446666667

00:42:19.570 --> 00:42:21.545 54 individual is someone that

NOTE Confidence: 0.773068446666667

00:42:21.545 --> 00:42:24.289 does exercise a lot is very fit.

NOTE Confidence: 0.773068446666667

00:42:24.290 --> 00:42:26.180 So those things you know seemed

NOTE Confidence: 0.773068446666667

00:42:26.180 --> 00:42:28.056 you know within normal limits for

NOTE Confidence: 0.773068446666667

00:42:28.056 --> 00:42:30.002 them and as per history as well.

NOTE Confidence: 0.773068446666667

00:42:30.010 --> 00:42:32.618 But you know at at the plus 5

NOTE Confidence: 0.773068446666667

00:42:32.618 --> 00:42:35.120 minute time point it dropped quite

NOTE Confidence: 0.773068446666667

00:42:35.120 --> 00:42:37.928 precipitously to about 70 / 40,

NOTE Confidence: 0.773068446666667

00:42:37.928 --> 00:42:40.918 the pulse went to 42.

NOTE Confidence: 0.773068446666667

00:42:40.920 --> 00:42:42.332 And actually, you know,

NOTE Confidence: 0.773068446666667

00:42:42.332 --> 00:42:44.895 still went down further at the a

NOTE Confidence: 0.773068446666667

00:42:44.895 --> 00:42:47.139 minute later and another minute later.

NOTE Confidence: 0.773068446666667

00:42:47.140 --> 00:42:48.660 And so this, you know,

NOTE Confidence: 0.773068446666667

00:42:48.660 --> 00:42:50.400 when we saw this change,

NOTE Confidence: 0.773068446666667

00:42:50.400 --> 00:42:52.692 which was not expected.

NOTE Confidence: 0.773068446666667

00:42:52.692 --> 00:42:56.533 Because all the literature to date of

NOTE Confidence: 0.773068446666667

00:42:56.533 --> 00:42:59.230 DMT remember being in healthy control

NOTE Confidence: 0.773068446666667

00:42:59.230 --> 00:43:01.645 showed very consistently increase in

NOTE Confidence: 0.773068446666667

00:43:01.645 --> 00:43:04.930 blood pressure and increase in heart rate,

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NOTE Confidence: 0.773068446666667

00:43:04.930 --> 00:43:05.782 not decrease.

NOTE Confidence: 0.773068446666667

00:43:05.782 --> 00:43:08.764 So this was you know quite surprising

NOTE Confidence: 0.773068446666667

00:43:08.764 --> 00:43:12.347 but you know we we adapted accordingly we

NOTE Confidence: 0.773068446666667

00:43:12.347 --> 00:43:15.988 were prepared but so you know we see by.

NOTE Confidence: 0.773068446666667

00:43:15.990 --> 00:43:19.490 The plus 10 time .5 minutes later,

NOTE Confidence: 0.773068446666667

00:43:19.490 --> 00:43:21.800 the blood pressure and pulse

NOTE Confidence: 0.773068446666667

00:43:21.800 --> 00:43:25.213 starts to trend back or get back

NOTE Confidence: 0.773068446666667

00:43:25.213 --> 00:43:27.229 to their normal baseline.

NOTE Confidence: 0.773068446666667

00:43:27.230 --> 00:43:28.940 And so while that was,

NOTE Confidence: 0.773068446666667

00:43:28.940 --> 00:43:30.809 you know quite scary in real time,

NOTE Confidence: 0.773068446666667

00:43:30.810 --> 00:43:33.190 I still remember that I guess relatively

NOTE Confidence: 0.773068446666667

00:43:33.190 --> 00:43:35.968 well-being quite junior in my experience

NOTE Confidence: 0.773068446666667

00:43:35.968 --> 00:43:38.770 as a clinician and researcher.

NOTE Confidence: 0.773068446666667

00:43:38.770 --> 00:43:40.075 It was very,

NOTE Confidence: 0.773068446666667

00:43:40.075 --> 00:43:42.250 it was very interesting that

NOTE Confidence: 0.773068446666667

00:43:42.250 --> 00:43:44.690 the subject in terms of their,

NOTE Confidence: 0.773068446666667

00:43:44.690 --> 00:43:47.210 their subjective experience of what was

NOTE Confidence: 0.773068446666667

00:43:47.210 --> 00:43:51.144 going on and remember this is the .3 dose.

NOTE Confidence: 0.773068446666667

00:43:51.150 --> 00:43:53.868 You know they didn't report any

NOTE Confidence: 0.773068446666667

00:43:53.868 --> 00:43:55.680 distress actually they were

NOTE Confidence: 0.829763180909091

00:43:55.759 --> 00:43:57.925 coherent, they were they were actually

NOTE Confidence: 0.829763180909091

00:43:57.925 --> 00:44:00.442 kind of puzzled by us you know because

NOTE Confidence: 0.829763180909091

00:44:00.442 --> 00:44:02.717 the interventions we made where we we,

NOTE Confidence: 0.829763180909091

00:44:02.720 --> 00:44:05.498 we placed her in a closer

NOTE Confidence: 0.829763180909091

00:44:05.498 --> 00:44:06.887 to Trendelenburg position.

NOTE Confidence: 0.829763180909091

00:44:06.890 --> 00:44:08.780 We increased the fluids which

NOTE Confidence: 0.829763180909091

00:44:08.780 --> 00:44:09.914 were already running.

NOTE Confidence: 0.829763180909091

00:44:09.920 --> 00:44:12.454 At baseline at a drip rate we

NOTE Confidence: 0.829763180909091

00:44:12.454 --> 00:44:15.240 increased it to the Max normal flow.

NOTE Confidence: 0.829763180909091

00:44:15.240 --> 00:44:17.018 So as you were doing those things

NOTE Confidence: 0.829763180909091

00:44:17.018 --> 00:44:18.290 the subject actually asked us

NOTE Confidence: 0.829763180909091

00:44:18.290 --> 00:44:19.664 like you know what's going on.

NOTE Confidence: 0.829763180909091

00:44:19.670 --> 00:44:22.246 Why are you like doing doing all

NOTE Confidence: 0.829763180909091

00:44:22.246 --> 00:44:24.979 this because you know we were we were

NOTE Confidence: 0.829763180909091

00:44:24.979 --> 00:44:26.909 responding to these numbers because

NOTE Confidence: 0.829763180909091

00:44:26.909 --> 00:44:29.364 they were were were concerning but

NOTE Confidence: 0.829763180909091

00:44:29.364 --> 00:44:31.308 luckily you know again after after

NOTE Confidence: 0.829763180909091

00:44:31.308 --> 00:44:33.523 the effects had resolved you know we

NOTE Confidence: 0.829763180909091

00:44:33.523 --> 00:44:36.160 we asked again and they said you know

NOTE Confidence: 0.829763180909091

00:44:36.160 --> 00:44:38.175 they didn't experience any discomfort,

NOTE Confidence: 0.829763180909091

00:44:38.180 --> 00:44:39.702 distress, anxiety,

NOTE Confidence: 0.829763180909091

00:44:39.702 --> 00:44:40.463 Lightheadedness.

NOTE Confidence: 0.829763180909091

00:44:40.463 --> 00:44:42.746 Loss of consciousness,

NOTE Confidence: 0.829763180909091

00:44:42.750 --> 00:44:45.162 they remember they were verbal the

NOTE Confidence: 0.829763180909091

00:44:45.162 --> 00:44:47.246 entire time and what was really

NOTE Confidence: 0.829763180909091

00:44:47.246 --> 00:44:49.509 important that came out after was this

NOTE Confidence: 0.829763180909091

00:44:49.509 --> 00:44:52.101 subject told us that they had a history of,

NOTE Confidence: 0.829763180909091

00:44:52.110 --> 00:44:55.386 you know of fainting many times in the past,

NOTE Confidence: 0.829763180909091

00:44:55.390 --> 00:44:56.230 of syncope basically.

NOTE Confidence: 0.829763180909091

00:44:56.230 --> 00:44:58.540 And they've had maybe 30 to 50 lifetime

NOTE Confidence: 0.829763180909091

00:44:58.540 --> 00:45:00.570 events to the point that you know,

NOTE Confidence: 0.829763180909091

00:45:00.570 --> 00:45:03.307 they have adapted their lifestyle around it.

NOTE Confidence: 0.829763180909091

00:45:03.310 --> 00:45:05.655 And so this was not something that

NOTE Confidence: 0.829763180909091

00:45:05.655 --> 00:45:07.681 was revealed to us until until

NOTE Confidence: 0.829763180909091

00:45:07.681 --> 00:45:09.270 this and so that you know,

NOTE Confidence: 0.829763180909091

00:45:09.270 --> 00:45:11.195 that helped us under make sense of.

NOTE Confidence: 0.829763180909091

00:45:11.200 --> 00:45:12.970 Why this may have happened,

NOTE Confidence: 0.829763180909091

00:45:12.970 --> 00:45:14.356 but you know, that being said,

NOTE Confidence: 0.829763180909091

00:45:14.360 --> 00:45:17.769 it was still quite concerning and something

NOTE Confidence: 0.829763180909091

00:45:17.769 --> 00:45:21.450 to adapt all future protocols for.

NOTE Confidence: 0.829763180909091

00:45:21.450 --> 00:45:25.860 And obviously do very rigorous screening.

NOTE Confidence: 0.829763180909091

00:45:25.860 --> 00:45:26.343 So.

NOTE Confidence: 0.829763180909091

00:45:26.343 --> 00:45:29.724 Then you know in terms of desirability,

NOTE Confidence: 0.829763180909091

00:45:29.730 --> 00:45:32.844 in terms of the drug reinforcement

NOTE Confidence: 0.829763180909091

00:45:32.844 --> 00:45:34.920 aspect of of safety.

NOTE Confidence: 0.829763180909091

00:45:34.920 --> 00:45:36.929 With people basically if they asked how

NOTE Confidence: 0.829763180909091

00:45:36.929 --> 00:45:39.208 much they would pay for it from 0 to $100,

NOTE Confidence: 0.829763180909091

00:45:39.210 --> 00:45:42.252 they said about $2425 for both

NOTE Confidence: 0.829763180909091

00:45:42.252 --> 00:45:44.734 doses and in terms of how likely

NOTE Confidence: 0.829763180909091

00:45:44.734 --> 00:45:47.444 they were to use the drug if they

NOTE Confidence: 0.829763180909091

00:45:47.444 --> 00:45:49.418 could of from zero to 100,

NOTE Confidence: 0.829763180909091

00:45:49.420 --> 00:45:52.297 again about the similar in the 20s.

NOTE Confidence: 0.829763180909091

00:45:52.300 --> 00:45:55.980 So it didn't really seem like people enjoy,

NOTE Confidence: 0.829763180909091

00:45:55.980 --> 00:45:59.868 really enjoyed or took pleasure out

NOTE Confidence: 0.829763180909091

00:45:59.868 --> 00:46:04.549 of the the actual dose experience.

NOTE Confidence: 0.829763180909091

00:46:04.550 --> 00:46:08.078 This figure is this is the measure

NOTE Confidence: 0.829763180909091

00:46:08.078 --> 00:46:10.596 of tolerability as we assessed

NOTE Confidence: 0.829763180909091

00:46:10.596 --> 00:46:13.308 it 2 hours after the dose.

NOTE Confidence: 0.829763180909091

00:46:13.310 --> 00:46:16.130 Was given after they were completely

NOTE Confidence: 0.829763180909091

00:46:16.130 --> 00:46:18.900 back to baseline on the we'll see

NOTE Confidence: 0.829763180909091

00:46:18.900 --> 00:46:21.350 here it goes from zero to 100.

NOTE Confidence: 0.829763180909091

00:46:21.350 --> 00:46:23.898 We have each subjects scores for each

NOTE Confidence: 0.829763180909091

00:46:23.898 --> 00:46:26.920 of those we have the 1st 3 being

NOTE Confidence: 0.829763180909091

00:46:26.920 --> 00:46:29.387 the healthy controls and then the

NOTE Confidence: 0.829763180909091

00:46:29.387 --> 00:46:32.047 remaining seven are depressed subjects.

NOTE Confidence: 0.829763180909091

00:46:32.050 --> 00:46:35.026 And you see here at the end the

NOTE Confidence: 0.829763180909091

00:46:35.026 --> 00:46:38.359 aggregate means and so unsurprisingly

NOTE Confidence: 0.829763180909091

00:46:38.359 --> 00:46:42.006 we see the the tolerability for

NOTE Confidence: 0.829763180909091

00:46:42.006 --> 00:46:43.766 the higher dose was lower.

NOTE Confidence: 0.829763180909091

00:46:43.770 --> 00:46:46.400 The average approximately was 90

NOTE Confidence: 0.829763180909091

00:46:46.400 --> 00:46:49.792 out of 100 for tolerability of the

NOTE Confidence: 0.829763180909091

00:46:49.792 --> 00:46:52.456 low dose and then 70 out of 100

NOTE Confidence: 0.829763180909091

00:46:52.550 --> 00:46:54.130 for the high dose.

NOTE Confidence: 0.829763180909091

00:46:54.130 --> 00:46:56.422 But something that is also worth

NOTE Confidence: 0.829763180909091

00:46:56.422 --> 00:46:59.308 noting here is just kind of looking

NOTE Confidence: 0.829763180909091

00:46:59.308 --> 00:47:01.864 at the the variability in the

NOTE Confidence: 0.829763180909091

00:47:01.864 --> 00:47:03.987 tolerability for the low dose where

NOTE Confidence: 0.829763180909091

00:47:03.987 --> 00:47:06.582 we actually had a few subjects that

NOTE Confidence: 0.829763180909091

00:47:06.582 --> 00:47:09.984 rated the tolerability as low as 30,

NOTE Confidence: 0.829763180909091

00:47:09.990 --> 00:47:13.626 so which is sounds quite difficult

NOTE Confidence: 0.829763180909091

00:47:13.626 --> 00:47:14.838 to tolerate.

NOTE Confidence: 0.829763180909091

00:47:14.840 --> 00:47:16.128 But overall, you know,

NOTE Confidence: 0.829763180909091

00:47:16.128 --> 00:47:18.060 70 was what it came out

NOTE Confidence: 0.89892185

00:47:18.130 --> 00:47:18.550 to be.

NOTE Confidence: 0.823452592272727

00:47:20.950 --> 00:47:23.792 So again it it's clearly not something

NOTE Confidence: 0.823452592272727

00:47:23.792 --> 00:47:26.807 that you know is 1 size fits all

NOTE Confidence: 0.823452592272727

00:47:26.807 --> 00:47:29.389 the dose even the effects et cetera.

NOTE Confidence: 0.823452592272727

00:47:29.390 --> 00:47:32.414 OK and so Doctor Pittinger your point

NOTE Confidence: 0.823452592272727

00:47:32.414 --> 00:47:34.458 about the depression curious finding

NOTE Confidence: 0.823452592272727

00:47:34.458 --> 00:47:37.450 well it came up again here as we

NOTE Confidence: 0.823452592272727

00:47:37.529 --> 00:47:40.139 we measured both anxiety depression

NOTE Confidence: 0.823452592272727

00:47:40.139 --> 00:47:43.191 separately on top of everything else

NOTE Confidence: 0.823452592272727

00:47:43.191 --> 00:47:45.962 to assess for the acute impact on

NOTE Confidence: 0.823452592272727

00:47:45.962 --> 00:47:50.700 by the by DMT and so we we asked.

NOTE Confidence: 0.823452592272727

00:47:50.700 --> 00:47:53.330 About anxiety for both groups.

NOTE Confidence: 0.823452592272727

00:47:53.330 --> 00:47:55.815 The only depression in our

NOTE Confidence: 0.823452592272727

00:47:55.815 --> 00:47:56.809 depressed subjects.

NOTE Confidence: 0.823452592272727

00:47:56.810 --> 00:47:59.698 So in all ten we asked for anxiety

NOTE Confidence: 0.823452592272727

00:47:59.698 --> 00:48:02.024 and they did report elevated

NOTE Confidence: 0.823452592272727

00:48:02.024 --> 00:48:04.544 anxiety and the higher dose.

NOTE Confidence: 0.823452592272727

00:48:04.550 --> 00:48:07.753 But again notice that on on objectively

NOTE Confidence: 0.823452592272727

00:48:07.753 --> 00:48:11.026 speaking 50 out of 100, you know,

NOTE Confidence: 0.823452592272727

00:48:11.026 --> 00:48:13.294 that's not 100 being you know,

NOTE Confidence: 0.823452592272727

00:48:13.300 --> 00:48:17.035 the very anxious or the most anxious or

NOTE Confidence: 0.823452592272727

00:48:17.035 --> 00:48:19.635 more more anxious than usual is what the

NOTE Confidence: 0.823452592272727

00:48:19.635 --> 00:48:22.867 100 anchor stood for more anxious than usual?

NOTE Confidence: 0.823452592272727

00:48:22.870 --> 00:48:23.544 Much more.

NOTE Confidence: 0.823452592272727

00:48:23.544 --> 00:48:27.319 So they rated at 50 for the high dose and

NOTE Confidence: 0.823452592272727

00:48:27.319 --> 00:48:30.313 then similarly the wording for depression,

NOTE Confidence: 0.823452592272727

00:48:30.320 --> 00:48:32.780 we saw that you know the

NOTE Confidence: 0.823452592272727

00:48:32.780 --> 00:48:34.420 .3 dose subjects felt,

NOTE Confidence: 0.823452592272727

00:48:34.420 --> 00:48:35.328 you know,

NOTE Confidence: 0.823452592272727

00:48:35.328 --> 00:48:37.598 more more depressed during during

NOTE Confidence: 0.823452592272727

00:48:37.598 --> 00:48:38.960 the peak effects.

NOTE Confidence: 0.823452592272727

00:48:38.960 --> 00:48:42.656 So that and this this was statistically

NOTE Confidence: 0.823452592272727

00:48:42.656 --> 00:48:45.650 significant in terms of the effects.

NOTE Confidence: 0.823452592272727

00:48:45.650 --> 00:48:48.338 And so our main finding which

NOTE Confidence: 0.823452592272727

00:48:48.338 --> 00:48:51.124 again is curious given you know we

NOTE Confidence: 0.823452592272727

00:48:51.124 --> 00:48:53.880 see this increase in depression.

NOTE Confidence: 0.823452592272727

00:48:53.880 --> 00:48:55.398 Depression endorsement acutely.

00:48:55.398 --> 00:48:57.928 You know the day after,

00:48:57.930 --> 00:49:01.290 you know we do see reduction and

00:49:01.290 --> 00:49:05.790 So what we have here is a the graph

00:49:05.790 --> 00:49:08.390 showing the change in Hamilton

00:49:08.390 --> 00:49:10.544 depression scores starting at

00:49:10.544 --> 00:49:13.610 baseline and showing the trend for

00:49:13.610 --> 00:49:16.808 each subject being a different color.

00:49:16.810 --> 00:49:19.175 The black line represents the

00:49:19.175 --> 00:49:21.003 mean for the group.

00:49:21.003 --> 00:49:23.258 And so we we put,

00:49:23.260 --> 00:49:26.860 we show here one day after the low dose when

00:49:26.948 --> 00:49:32.870 we measured the Hamilton, the change was.

00:49:32.870 --> 00:49:34.199 Not too much.

00:49:34.199 --> 00:49:36.857 One day after the .3 dose,

00:49:36.860 --> 00:49:37.912 you know, we see,

NOTE Confidence: 0.823452592272727

00:49:37.912 --> 00:49:39.227 we see an interesting spread.

NOTE Confidence: 0.823452592272727

00:49:39.230 --> 00:49:42.285 We see some subjects report

NOTE Confidence: 0.823452592272727

00:49:42.285 --> 00:49:43.507 significant improvement,

NOTE Confidence: 0.823452592272727

00:49:43.510 --> 00:49:46.426 you know change of nine points

NOTE Confidence: 0.823452592272727

00:49:46.426 --> 00:49:48.889 on their Hamilton and then

NOTE Confidence: 0.823452592272727

00:49:48.889 --> 00:49:51.230 some may not maybe one point.

NOTE Confidence: 0.823452592272727

00:49:51.230 --> 00:49:56.064 So you know so some people seem to

NOTE Confidence: 0.823452592272727

00:49:56.064 --> 00:49:58.699 experience reduction of in their

NOTE Confidence: 0.823452592272727

00:49:58.699 --> 00:50:01.400 depression symptoms while some did not.

NOTE Confidence: 0.823452592272727

00:50:01.400 --> 00:50:04.070 This is also somewhat contrasting,

NOTE Confidence: 0.823452592272727

00:50:04.070 --> 00:50:04.920 or at least, you know,

NOTE Confidence: 0.823452592272727

00:50:04.920 --> 00:50:07.350 juxtaposed against silybin where you

NOTE Confidence: 0.823452592272727

00:50:07.350 --> 00:50:11.349 know you get a much more homogeneous,

NOTE Confidence: 0.823452592272727

00:50:11.350 --> 00:50:11.988 you know,

NOTE Confidence: 0.823452592272727

00:50:11.988 --> 00:50:12.626 positive response.

NOTE Confidence: 0.823452592272727

00:50:12.626 --> 00:50:14.540 I haven't seen these sort of

NOTE Confidence: 0.823452592272727

00:50:14.602 --> 00:50:16.552 spreads in terms of the depression

NOTE Confidence: 0.823452592272727

00:50:16.552 --> 00:50:18.762 scores when they looked at their

NOTE Confidence: 0.823452592272727

00:50:18.762 --> 00:50:20.040 acute antidepressant effects.

NOTE Confidence: 0.823452592272727

00:50:20.040 --> 00:50:21.530 Most subjects tend to respond,

NOTE Confidence: 0.809065381111111

00:50:22.120 --> 00:50:24.199 but that may be because of our small sample.

NOTE Confidence: 0.876677282

00:50:24.970 --> 00:50:26.330 Right, right, right. Of course.

NOTE Confidence: 0.876677282

00:50:26.330 --> 00:50:30.256 Sorry. And so our effect size is .75

NOTE Confidence: 0.876677282

00:50:30.256 --> 00:50:34.430 reported that is, is G and and Oh yeah,

NOTE Confidence: 0.876677282

00:50:34.430 --> 00:50:37.311 of course to mention that the the

NOTE Confidence: 0.876677282

00:50:37.311 --> 00:50:40.221 analysis we did was comparing the

NOTE Confidence: 0.876677282

00:50:40.221 --> 00:50:43.190 change from baseline to each test day.

NOTE Confidence: 0.876677282

00:50:43.190 --> 00:50:46.342 So the change between baseline and one day

NOTE Confidence: 0.876677282

00:50:46.342 --> 00:50:49.410 after the low dose was not significant,

NOTE Confidence: 0.876677282

00:50:49.410 --> 00:50:51.996 but the change between the day

NOTE Confidence: 0.876677282

00:50:51.996 --> 00:50:55.340 after the .3 dose and baseline was.

NOTE Confidence: 0.876677282

00:50:55.340 --> 00:50:58.430 And so that affects size was .75.

NOTE Confidence: 0.876677282

00:50:58.430 --> 00:51:01.130 We use hedges G that's calculated

NOTE Confidence: 0.876677282

00:51:01.130 --> 00:51:05.272 as the the change in the mean over

NOTE Confidence: 0.876677282

00:51:05.272 --> 00:51:07.722 the standard deviation pooled and

NOTE Confidence: 0.876677282

00:51:07.722 --> 00:51:09.978 so that is how we arrived at that.

NOTE Confidence: 0.876677282

00:51:09.980 --> 00:51:12.724 This is the table that just shows

NOTE Confidence: 0.876677282

00:51:12.724 --> 00:51:15.538 our means for the depression scores

NOTE Confidence: 0.876677282

00:51:15.538 --> 00:51:17.176 and the differences.

NOTE Confidence: 0.876677282

00:51:17.180 --> 00:51:21.473 So you see here our average is near 24

NOTE Confidence: 0.876677282

00:51:21.473 --> 00:51:24.896 baseline Hamilton score and you know.

NOTE Confidence: 0.876677282

00:51:24.900 --> 00:51:26.385 One day after.

NOTE Confidence: 0.876677282

00:51:26.385 --> 00:51:29.850 The low dose you know about point

NOTE Confidence: 0.876677282

00:51:29.958 --> 00:51:33.070 difference and one day after the

NOTE Confidence: 0.876677282

00:51:33.070 --> 00:51:35.600 higher dose about a 4.5 difference

NOTE Confidence: 0.876677282

00:51:35.600 --> 00:51:38.180 and so this this was statistically

NOTE Confidence: 0.876677282

00:51:38.180 --> 00:51:40.663 significant for what for what it for

NOTE Confidence: 0.876677282

00:51:40.663 --> 00:51:42.615 whatever it means which is limited

NOTE Confidence: 0.876677282

00:51:42.615 --> 00:51:45.398 by a variety of things which you know

NOTE Confidence: 0.876677282

00:51:45.398 --> 00:51:48.513 will comment on now and then kind of

NOTE Confidence: 0.876677282

00:51:48.513 --> 00:51:51.713 open up to you know thoughts and questions.

NOTE Confidence: 0.876677282

00:51:51.720 --> 00:51:54.954 So this study is the the

NOTE Confidence: 0.876677282

00:51:54.954 --> 00:51:57.110 first to demonstrate no.

NOTE Confidence: 0.876677282

00:51:57.110 --> 00:52:01.485 Safety, tolerability and DMT are most novel.

NOTE Confidence: 0.876677282

00:52:01.490 --> 00:52:05.130 Finding is that we did see a reduction,

NOTE Confidence: 0.876677282

00:52:05.130 --> 00:52:09.060 a significant reduction in depressive

NOTE Confidence: 0.876677282

00:52:09.060 --> 00:52:11.418 depressive symptomatology after

NOTE Confidence: 0.876677282

00:52:11.418 --> 00:52:14.922 subject received .3 milligram per

NOTE Confidence: 0.876677282

00:52:14.922 --> 00:52:17.374 kilogram of DMT intravenously.

NOTE Confidence: 0.876677282

00:52:17.380 --> 00:52:19.720 Of notes.

NOTE Confidence: 0.876677282

00:52:19.720 --> 00:52:21.504 Confounding this potential effect,

NOTE Confidence: 0.876677282

00:52:21.504 --> 00:52:22.396 you know,

NOTE Confidence: 0.876677282

00:52:22.400 --> 00:52:24.764 besides being open label and you

NOTE Confidence: 0.876677282

00:52:24.764 --> 00:52:26.340 know fixed dose etcetera,

NOTE Confidence: 0.876677282

00:52:26.340 --> 00:52:29.434 I mean there we cannot say that

NOTE Confidence: 0.876677282

00:52:29.434 --> 00:52:32.895 the .1 dose was non contributory

NOTE Confidence: 0.876677282

00:52:32.895 --> 00:52:36.088 to that potential effect, you know,

NOTE Confidence: 0.876677282

00:52:36.088 --> 00:52:36.820 as a carryover.

NOTE Confidence: 0.876677282

00:52:36.820 --> 00:52:37.964 And that's you know,

NOTE Confidence: 0.876677282

00:52:37.964 --> 00:52:40.319 again one of the other challenges with doing,

NOTE Confidence: 0.876677282

00:52:40.320 --> 00:52:42.672 you know multiple dose studies with

NOTE Confidence: 0.876677282

00:52:42.672 --> 00:52:44.680 the psychedelics because you know

NOTE Confidence: 0.876677282

00:52:44.680 --> 00:52:46.565 it's very difficult to separate,

NOTE Confidence: 0.876677282

00:52:46.570 --> 00:52:48.652 you know what what they're doing

NOTE Confidence: 0.876677282

00:52:48.652 --> 00:52:49.693 and how they.

NOTE Confidence: 0.876677282

00:52:49.700 --> 00:52:53.810 Interact or accumulatively act in general.

NOTE Confidence: 0.876677282

00:52:53.810 --> 00:52:57.354 So in the study we did not provide

NOTE Confidence: 0.876677282

00:52:57.354 --> 00:52:58.240 any psychotherapy.

NOTE Confidence: 0.876677282

00:52:58.240 --> 00:53:01.452 There was no special setting and so

NOTE Confidence: 0.876677282

00:53:01.452 --> 00:53:03.948 taken together I think this study

NOTE Confidence: 0.876677282

00:53:03.948 --> 00:53:07.337 raises a lot of interesting questions.

NOTE Confidence: 0.876677282

00:53:07.340 --> 00:53:09.769 Naturally the next step is you know

NOTE Confidence: 0.876677282

00:53:09.769 --> 00:53:12.283 we have the approval to proceed

NOTE Confidence: 0.876677282

00:53:12.283 --> 00:53:14.608 with our randomized clinical trial

NOTE Confidence: 0.876677282

00:53:14.608 --> 00:53:17.538 which is which is what our plan is.

NOTE Confidence: 0.876677282

00:53:17.540 --> 00:53:20.046 You know there are still very much

NOTE Confidence: 0.876677282

00:53:20.046 --> 00:53:22.105 questions about what is you know

NOTE Confidence: 0.876677282

00:53:22.105 --> 00:53:23.017 an optimal dose,

NOTE Confidence: 0.876677282

00:53:23.020 --> 00:53:26.344 you know in terms of reducing

NOTE Confidence: 0.876677282

00:53:26.344 --> 00:53:28.958 depression severity. What duration?

NOTE Confidence: 0.876677282

00:53:28.958 --> 00:53:31.016 And, you know,

NOTE Confidence: 0.876677282

00:53:31.020 --> 00:53:33.480 by having IV administration we

NOTE Confidence: 0.876677282

00:53:33.480 --> 00:53:36.870 do have the ability to, you know,

NOTE Confidence: 0.876677282

00:53:36.870 --> 00:53:39.195 exquisitely control the the level,

NOTE Confidence: 0.876677282

00:53:39.200 --> 00:53:41.190 the concentration and the duration

NOTE Confidence: 0.876677282

00:53:41.190 --> 00:53:41.986 of effects.

NOTE Confidence: 0.800525858421053

00:53:44.310 --> 00:53:47.088 And you know something that's intrinsically

NOTE Confidence: 0.800525858421053

00:53:47.088 --> 00:53:50.657 a challenge to these clinical trials is to

NOTE Confidence: 0.800525858421053

00:53:50.657 --> 00:53:53.740 how to control for expectancy given that

NOTE Confidence: 0.800525858421053

00:53:53.740 --> 00:53:56.830 you know many placebo effect etcetera.

NOTE Confidence: 0.800525858421053

00:53:56.830 --> 00:54:00.102 These things you know really do seem to

NOTE Confidence: 0.800525858421053

00:54:00.102 --> 00:54:03.466 impact you know the changes associated with

NOTE Confidence: 0.800525858421053

00:54:03.466 --> 00:54:06.821 with these with these drugs and there's no,

NOTE Confidence: 0.800525858421053

00:54:06.821 --> 00:54:09.277 there's no easy answers at the there was

NOTE Confidence: 0.800525858421053

00:54:09.277 --> 00:54:11.475 a site there was the first psychedelic

NOTE Confidence: 0.800525858421053

00:54:11.475 --> 00:54:13.312 NIH workshop in January and these

NOTE Confidence: 0.800525858421053

00:54:13.312 --> 00:54:15.028 were some of the things that.

NOTE Confidence: 0.800525858421053

00:54:15.030 --> 00:54:17.118 You know, they were also contemplating

NOTE Confidence: 0.800525858421053

00:54:17.118 --> 00:54:19.382 and kind of discussing and that,

NOTE Confidence: 0.800525858421053

00:54:19.382 --> 00:54:21.806 you know there really aren't any

NOTE Confidence: 0.800525858421053

00:54:21.806 --> 00:54:24.574 easy solutions but you know certainly

NOTE Confidence: 0.800525858421053

00:54:24.574 --> 00:54:27.070 there seems to be some interesting

NOTE Confidence: 0.800525858421053

00:54:27.143 --> 00:54:29.765 potential that needs to be explored.

NOTE Confidence: 0.800525858421053

00:54:29.770 --> 00:54:31.414 Something I'm very curious

NOTE Confidence: 0.800525858421053

00:54:31.414 --> 00:54:33.469 about to you know ask,

NOTE Confidence: 0.800525858421053

00:54:33.470 --> 00:54:35.528 you know the experts in the audience

NOTE Confidence: 0.800525858421053

00:54:35.528 --> 00:54:37.616 that have much more robotic experience

NOTE Confidence: 0.800525858421053

00:54:37.616 --> 00:54:39.521 with you know the depression

NOTE Confidence: 0.800525858421053

00:54:39.521 --> 00:54:41.494 treatments as you know where are

NOTE Confidence: 0.800525858421053

00:54:41.494 --> 00:54:43.448 people think how we should move from

NOTE Confidence: 0.800525858421053

00:54:43.448 --> 00:54:45.192 here in terms of study design if the.

NOTE Confidence: 0.800525858421053

00:54:45.200 --> 00:54:47.490 People have thoughts or recommendations.

NOTE Confidence: 0.800525858421053

00:54:47.490 --> 00:54:50.914 I'm I'm quite curious and trying to you

NOTE Confidence: 0.800525858421053

00:54:50.914 --> 00:54:53.282 know isolate and you know question,

NOTE Confidence: 0.800525858421053

00:54:53.282 --> 00:54:56.026 you know the five HT 2A component

NOTE Confidence: 0.800525858421053

00:54:56.026 --> 00:54:58.406 of you know the mechanism.

NOTE Confidence: 0.800525858421053

00:54:58.410 --> 00:55:00.362 You know to see if we can actually

NOTE Confidence: 0.800525858421053

00:55:00.362 --> 00:55:02.390 kind of prove that because it doesn't

NOTE Confidence: 0.800525858421053

00:55:02.390 --> 00:55:05.093 seem to be that study today really have

NOTE Confidence: 0.800525858421053

00:55:05.093 --> 00:55:07.415 discerned that you know very definitively.

NOTE Confidence: 0.854736058

00:55:09.500 --> 00:55:12.926 So, so yeah, I mean. Thoughts.

NOTE Confidence: 0.854736058

00:55:12.926 --> 00:55:15.790 Comments. Feel free to.

NOTE Confidence: 0.854736058

00:55:15.790 --> 00:55:19.190 Umm. London. Thank you.

NOTE Confidence: 0.843705639285714

00:55:21.170 --> 00:55:22.562 Thank you sheriff. This is really

NOTE Confidence: 0.843705639285714

00:55:22.562 --> 00:55:24.347 cool work and I do know how much.

NOTE Confidence: 0.843705639285714

00:55:24.350 --> 00:55:25.570 Well maybe, I probably don't.

NOTE Confidence: 0.843705639285714

00:55:25.570 --> 00:55:27.262 I probably still underestimate how much

NOTE Confidence: 0.843705639285714

00:55:27.262 --> 00:55:29.109 work goes into getting this off the

NOTE Confidence: 0.843705639285714

00:55:29.109 --> 00:55:30.900 ground and doing the first DMT study and.

NOTE Confidence: 0.843705639285714

00:55:30.900 --> 00:55:32.770 So it's really impressive to

NOTE Confidence: 0.843705639285714

00:55:32.770 --> 00:55:34.640 have gotten to this point.

NOTE Confidence: 0.843705639285714

00:55:34.640 --> 00:55:36.420 With the the controlled study,

NOTE Confidence: 0.843705639285714

00:55:36.420 --> 00:55:38.142 are you going to stick with the

NOTE Confidence: 0.843705639285714

00:55:38.142 --> 00:55:39.916 three group Saline point 1.3 or do

NOTE Confidence: 0.843705639285714

00:55:39.916 --> 00:55:41.392 these pilot results make you think

NOTE Confidence: 0.843705639285714

00:55:41.445 --> 00:55:42.831 that maybe you could go straight

NOTE Confidence: 0.843705639285714

00:55:42.831 --> 00:55:45.148 to a two group just say Linden .3?

NOTE Confidence: 0.79631792125

00:55:46.810 --> 00:55:50.226 If between the two, more likely the latter,

NOTE Confidence: 0.79631792125

00:55:50.230 --> 00:55:53.394 I think we're also really curious about

NOTE Confidence: 0.79631792125

00:55:53.394 --> 00:55:56.649 the idea of potentially a constant

NOTE Confidence: 0.79631792125

00:55:56.649 --> 00:56:00.255 infusion to maybe prolong the effects.

NOTE Confidence: 0.79631792125

00:56:00.260 --> 00:56:02.689 Maybe a lower dose because the .3

NOTE Confidence: 0.79631792125

00:56:02.689 --> 00:56:06.035 seems to be right as we saw kind

NOTE Confidence: 0.79631792125

00:56:06.035 --> 00:56:08.340 of varied in its tolerability.

NOTE Confidence: 0.79631792125

00:56:08.340 --> 00:56:11.247 It's you know, we we thought the .3 for

NOTE Confidence: 0.79631792125

00:56:11.247 --> 00:56:13.950 depressed subjects seem to be less tolerable.

NOTE Confidence: 0.79631792125

00:56:13.950 --> 00:56:16.085 I mean it will be really important

NOTE Confidence: 0.79631792125

00:56:16.085 --> 00:56:18.494 to see differences if there are any

NOTE Confidence: 0.79631792125

00:56:18.494 --> 00:56:20.284 between controls and depressed objects.

NOTE Confidence: 0.79631792125

00:56:20.290 --> 00:56:21.942 I mean if there may be that

NOTE Confidence: 0.79631792125

00:56:21.942 --> 00:56:23.310 wouldn't be too surprising.

NOTE Confidence: 0.79631792125

00:56:23.310 --> 00:56:24.744 So I'm thinking we may need

NOTE Confidence: 0.79631792125

00:56:24.744 --> 00:56:26.270 to adapt for things like that.

NOTE Confidence: 0.79631792125

00:56:26.270 --> 00:56:28.526 But I think, you know we'll have to

NOTE Confidence: 0.79631792125

00:56:28.526 --> 00:56:31.118 do more studies to get get at it.

NOTE Confidence: 0.817436771428571

00:56:31.810 --> 00:56:33.945 The other reason we are thinking about.

NOTE Confidence: 0.817436771428571

00:56:33.950 --> 00:56:36.946 Ways of doing a. Both this and

NOTE Confidence: 0.817436771428571

00:56:36.946 --> 00:56:38.780 constant confusion which would.

NOTE Confidence: 0.817436771428571

00:56:38.780 --> 00:56:40.705 Produce effects that are not

NOTE Confidence: 0.817436771428571

00:56:40.705 --> 00:56:43.500 as intense as the .3 milligram.

NOTE Confidence: 0.817436771428571

00:56:43.500 --> 00:56:47.440 Still is if psychotherapy is

NOTE Confidence: 0.817436771428571

00:56:47.440 --> 00:56:52.940 supposed to be a key component in in.

NOTE Confidence: 0.817436771428571

00:56:52.940 --> 00:56:55.705 In this approach. In half an hour.

NOTE Confidence: 0.865180626428572

00:56:58.000 --> 00:56:59.352 Of such intense effects.

NOTE Confidence: 0.865180626428572

00:56:59.352 --> 00:57:01.380 I don't think people can actually

NOTE Confidence: 0.865180626428572

00:57:01.440 --> 00:57:03.480 engage in meaningful psychotherapy,

NOTE Confidence: 0.865180626428572

00:57:03.480 --> 00:57:04.520 at least in our hands,

NOTE Confidence: 0.865180626428572

00:57:04.520 --> 00:57:07.139 what we saw at this point 3 milligram dose,

NOTE Confidence: 0.865180626428572

00:57:07.140 --> 00:57:11.276 but it's conceivable that at a lower dose.

NOTE Confidence: 0.865180626428572

00:57:11.280 --> 00:57:12.815 People might be able to

NOTE Confidence: 0.865180626428572

00:57:12.815 --> 00:57:13.736 engage in psychotherapy,

NOTE Confidence: 0.865180626428572

00:57:13.740 --> 00:57:16.557 again based on the if we make the assumption

NOTE Confidence: 0.865180626428572

00:57:16.557 --> 00:57:18.814 that psychotherapy is an essential

NOTE Confidence: 0.865180626428572

00:57:18.814 --> 00:57:21.159 ingredient to people getting better.

NOTE Confidence: 0.865180626428572

00:57:21.160 --> 00:57:22.835 I don't think that's been

NOTE Confidence: 0.865180626428572

00:57:22.835 --> 00:57:23.505 clearly demonstrated,

NOTE Confidence: 0.865180626428572

00:57:23.510 --> 00:57:27.032 though that is how most groups

NOTE Confidence: 0.865180626428572

00:57:27.032 --> 00:57:28.793 are actually approaching.

NOTE Confidence: 0.865180626428572

00:57:28.800 --> 00:57:30.432 Use of psychedelic drugs.

NOTE Confidence: 0.865180626428572

00:57:30.432 --> 00:57:30.840 So.

NOTE Confidence: 0.865180626428572

00:57:30.840 --> 00:57:33.290 So we are looking at ways of

NOTE Confidence: 0.865180626428572

00:57:33.290 --> 00:57:35.365 of extending the infusion but

NOTE Confidence: 0.865180626428572

00:57:35.365 --> 00:57:38.635 at but with the idea of having

NOTE Confidence: 0.865180626428572

00:57:38.635 --> 00:57:40.087 less intense effects.

NOTE Confidence: 0.83105517

00:57:42.040 --> 00:57:42.730 Makes sense?

NOTE Confidence: 0.847742898

00:57:44.360 --> 00:57:45.360 May I ask a question?

NOTE Confidence: 0.84051284375

00:57:47.530 --> 00:57:50.370 Thank you so much Terry for the presentation.

NOTE Confidence: 0.84051284375

00:57:50.370 --> 00:57:53.135 Speaking of dosing, I noticed that in

NOTE Confidence: 0.84051284375

00:57:53.135 --> 00:57:56.529 the table that you had or it was a graph

NOTE Confidence: 0.84051284375

00:57:56.529 --> 00:57:59.690 that about the effects of .1 and .3,

NOTE Confidence: 0.84051284375

00:57:59.690 --> 00:58:02.510 a good number of individuals also

NOTE Confidence: 0.84051284375

00:58:02.510 --> 00:58:05.469 reported intense experience with .1.

NOTE Confidence: 0.84051284375

00:58:05.470 --> 00:58:08.865 I don't remember what was the number,

NOTE Confidence: 0.84051284375

00:58:08.870 --> 00:58:10.562 but that was interesting to me

NOTE Confidence: 0.84051284375

00:58:10.562 --> 00:58:12.413 that what was the intensity of

NOTE Confidence: 0.84051284375

00:58:12.413 --> 00:58:14.393 the experience they had with .1.

NOTE Confidence: 0.77284918

00:58:16.350 --> 00:58:20.438 Yeah, yeah, they scored it as well.

NOTE Confidence: 0.77284918

00:58:20.440 --> 00:58:23.338 45 out of 100 right for

NOTE Confidence: 0.77284918

00:58:23.338 --> 00:58:25.700 the intensity for the .1.

NOTE Confidence: 0.786223688

00:58:26.450 --> 00:58:28.320 I I think what people?

NOTE Confidence: 0.847160215

00:58:31.330 --> 00:58:33.970 What what many subjects may be

NOTE Confidence: 0.847160215

00:58:33.970 --> 00:58:37.750 reporting is the initial rush.

NOTE Confidence: 0.847160215

00:58:37.750 --> 00:58:40.180 That you get when it's administered

NOTE Confidence: 0.847160215

00:58:40.180 --> 00:58:42.301 intravenously as a bolus that

NOTE Confidence: 0.847160215

00:58:42.301 --> 00:58:44.029 rushes like being launched,

NOTE Confidence: 0.847160215

00:58:44.030 --> 00:58:45.978 you know, into space,

NOTE Confidence: 0.847160215

00:58:45.978 --> 00:58:48.413 kind of that initial joke.

NOTE Confidence: 0.847160215

00:58:48.420 --> 00:58:51.514 And whereas with the .3 milligram dose,

NOTE Confidence: 0.847160215

00:58:51.520 --> 00:58:53.596 that effects may last a little

NOTE Confidence: 0.847160215

00:58:53.596 --> 00:58:55.620 longer and be more intense,

NOTE Confidence: 0.847160215

00:58:55.620 --> 00:58:58.212 at .1 it kind of tapers off pretty quickly.

NOTE Confidence: 0.892589244545455

00:58:59.180 --> 00:59:02.001 So does it mean that .1 also

NOTE Confidence: 0.892589244545455

00:59:02.001 --> 00:59:03.960 has some psychedelic effects?

NOTE Confidence: 0.892589244545455

00:59:03.960 --> 00:59:05.525 Like do they have altered

NOTE Confidence: 0.892589244545455

00:59:05.525 --> 00:59:07.597 perception and some type of like

NOTE Confidence: 0.892589244545455

00:59:07.597 --> 00:59:09.827 those feelings that people really

NOTE Confidence: 0.892589244545455

00:59:09.827 --> 00:59:11.165 experience with psychedelics?

NOTE Confidence: 0.897659772727273

00:59:12.570 --> 00:59:14.936 As you can see on this graph

NOTE Confidence: 0.897659772727273

00:59:14.936 --> 00:59:16.962 itself there was some, you know,

NOTE Confidence: 0.897659772727273

00:59:16.962 --> 00:59:19.054 obviously this is not placebo-controlled.

NOTE Confidence: 0.897659772727273

00:59:19.054 --> 00:59:22.990 But some subjects reported.

NOTE Confidence: 0.897659772727273

00:59:22.990 --> 00:59:26.966 You know, I felt unusual bodily sensations.

NOTE Confidence: 0.897659772727273

00:59:26.970 --> 00:59:30.410 I saw geometric pattern, so so for example,

NOTE Confidence: 0.897659772727273

00:59:30.410 --> 00:59:32.252 some of the effects that subjects

NOTE Confidence: 0.897659772727273

00:59:32.252 --> 00:59:34.490 reported on the .1 milligram doses.

NOTE Confidence: 0.897659772727273

00:59:34.490 --> 00:59:35.834 I don't know if you've seen

NOTE Confidence: 0.897659772727273

00:59:35.834 --> 00:59:37.230 the inside of the EEG boot,

NOTE Confidence: 0.897659772727273

00:59:37.230 --> 00:59:40.849 but it's it's covered with copper mesh.

NOTE Confidence: 0.897659772727273

00:59:40.850 --> 00:59:43.786 And it's the the the IT has a

NOTE Confidence: 0.897659772727273

00:59:43.786 --> 00:59:45.619 geometric pattern that's there,

NOTE Confidence: 0.897659772727273

00:59:45.620 --> 00:59:47.594 but it's almost you're oblivious to it

NOTE Confidence: 0.897659772727273

00:59:47.594 --> 00:59:50.187 most of the time because it's really trap.

NOTE Confidence: 0.897659772727273

00:59:50.190 --> 00:59:52.950 But what subjects reported was that

NOTE Confidence: 0.897659772727273

00:59:52.950 --> 00:59:55.549 geometric pattern came to the fore?

NOTE Confidence: 0.897659772727273

00:59:55.550 --> 00:59:58.850 And the lines start shimmering,

NOTE Confidence: 0.897659772727273

00:59:58.850 --> 01:00:00.930 uh, and assuming different colors.

NOTE Confidence: 0.897659772727273

01:00:00.930 --> 01:00:02.688 And they were previously unaware of

NOTE Confidence: 0.897659772727273

01:00:02.688 --> 01:00:04.778 those kinds of, but it wasn't disturbing.

NOTE Confidence: 0.897659772727273

01:00:04.778 --> 01:00:05.986 It was just that.

NOTE Confidence: 0.897659772727273

01:00:05.990 --> 01:00:07.810 Yeah, so those are the kinds of

NOTE Confidence: 0.897659772727273

01:00:07.810 --> 01:00:09.638 things that people with other subjects

NOTE Confidence: 0.897659772727273

01:00:09.638 --> 01:00:11.608 reported feeling like they were.

NOTE Confidence: 0.897659772727273

01:00:11.610 --> 01:00:15.416 The entire chair was kind of floating in,

NOTE Confidence: 0.897659772727273

01:00:15.416 --> 01:00:16.362 you know,

NOTE Confidence: 0.897659772727273

01:00:16.362 --> 01:00:19.200 those were the kinds of experiences.

NOTE Confidence: 0.885798666666667

01:00:19.990 --> 01:00:20.839 OK. Thank you.

NOTE Confidence: 0.895041320833333

01:00:24.440 --> 01:00:28.166 I was hoping to comment on the on the

NOTE Confidence: 0.895041320833333

01:00:28.166 --> 01:00:32.630 mention of the of of the worsening.

NOTE Confidence: 0.895041320833333

01:00:32.630 --> 01:00:34.955 Worsening depression measures

NOTE Confidence: 0.895041320833333

01:00:34.955 --> 01:00:38.055 acutely and the anhedonia.

NOTE Confidence: 0.895041320833333

01:00:38.060 --> 01:00:41.308 So in the in the headache studies that

NOTE Confidence: 0.895041320833333

01:00:41.308 --> 01:00:44.656 I've been doing in the in the same lab,

NOTE Confidence: 0.895041320833333

01:00:44.660 --> 01:00:49.280 a lot of patients get headaches.

NOTE Confidence: 0.895041320833333

01:00:49.280 --> 01:00:51.114 Not necessarily on the test day but

NOTE Confidence: 0.895041320833333

01:00:51.114 --> 01:00:53.136 maybe later on that evening or the

NOTE Confidence: 0.895041320833333

01:00:53.136 --> 01:00:54.900 following day and these are headache

NOTE Confidence: 0.895041320833333

01:00:54.955 --> 01:00:56.765 patients so they're they're getting

NOTE Confidence: 0.895041320833333

01:00:56.765 --> 01:00:58.842 headaches anyways but some people but

NOTE Confidence: 0.895041320833333

01:00:58.842 --> 01:01:00.676 we we let patients know that these

NOTE Confidence: 0.895041320833333

01:01:00.676 --> 01:01:02.630 drugs are known to cause headaches.

NOTE Confidence: 0.895041320833333

01:01:02.630 --> 01:01:04.750 So just you know be be ready for

NOTE Confidence: 0.895041320833333

01:01:04.750 --> 01:01:06.777 that and it's not official because

NOTE Confidence: 0.895041320833333

01:01:06.777 --> 01:01:09.307 I haven't done like this like the

NOTE Confidence: 0.895041320833333

01:01:09.307 --> 01:01:11.129 the analysis but it almost seemed

NOTE Confidence: 0.895041320833333

01:01:11.130 --> 01:01:13.344 like the patients who had more

NOTE Confidence: 0.895041320833333

01:01:13.344 --> 01:01:15.198 had worsening headaches did did

NOTE Confidence: 0.895041320833333

01:01:15.198 --> 01:01:17.070 better ultimately and I tell them

NOTE Confidence: 0.895041320833333

01:01:17.070 --> 01:01:19.469 you know in my non scientific way.

NOTE Confidence: 0.895041320833333

01:01:19.470 --> 01:01:20.904 So it's probably just shaking up

NOTE Confidence: 0.895041320833333

01:01:20.904 --> 01:01:22.469 the system to help turn it off.

NOTE Confidence: 0.895041320833333

01:01:22.470 --> 01:01:24.780 So it needs to generate the headache

NOTE Confidence: 0.895041320833333

01:01:24.780 --> 01:01:27.787 for it to to turn off the the system.

NOTE Confidence: 0.895041320833333

01:01:27.790 --> 01:01:29.554 So I tell patients don't worry about

NOTE Confidence: 0.895041320833333

01:01:29.554 --> 01:01:31.140 an extra headache or two because

NOTE Confidence: 0.895041320833333

01:01:31.140 --> 01:01:32.445 it actually probably means that

NOTE Confidence: 0.895041320833333

01:01:32.445 --> 01:01:33.668 it's it's going to work.

NOTE Confidence: 0.895041320833333

01:01:33.670 --> 01:01:35.644 So I probably shouldn't do that because

NOTE Confidence: 0.895041320833333

01:01:35.644 --> 01:01:37.520 then I guess their expectations

NOTE Confidence: 0.642201595

01:01:37.530 --> 01:01:40.506 out if they're having headaches.

NOTE Confidence: 0.642201595

01:01:40.506 --> 01:01:42.558 But so I actually wonder if there's

NOTE Confidence: 0.919220025

01:01:42.570 --> 01:01:45.282 something similar going on here where

NOTE Confidence: 0.919220025

01:01:45.282 --> 01:01:47.955 the system is being activated so

NOTE Confidence: 0.919220025

01:01:47.955 --> 01:01:51.067 that it can be it can be suppressed.

NOTE Confidence: 0.919220025

01:01:51.070 --> 01:01:52.720 And that's that's a non

NOTE Confidence: 0.919220025

01:01:52.720 --> 01:01:53.380 scientific hypothesis.

NOTE Confidence: 0.88817352

01:01:54.780 --> 01:01:57.646 No, it is aligned with, you know,

NOTE Confidence: 0.88817352

01:01:57.646 --> 01:02:02.075 the 1972 article from Doctor Francis

NOTE Confidence: 0.88817352

01:02:02.075 --> 01:02:04.700 Raymond who's who seems to again

NOTE Confidence: 0.88817352

01:02:04.700 --> 01:02:07.579 suggest as well that some of this

NOTE Confidence: 0.88817352

01:02:07.579 --> 01:02:09.959 intensity of this negative affective.

NOTE Confidence: 0.88817352

01:02:09.960 --> 01:02:12.820 Experience seems to be relevant,

NOTE Confidence: 0.88817352

01:02:12.820 --> 01:02:15.380 but you know, so I think it is

NOTE Confidence: 0.88817352

01:02:15.380 --> 01:02:16.788 very interesting, it's very,

NOTE Confidence: 0.88817352

01:02:16.788 --> 01:02:19.092 it's very interesting in terms of

NOTE Confidence: 0.88817352

01:02:19.092 --> 01:02:20.596 predicting response and hopefully

NOTE Confidence: 0.88817352

01:02:20.596 --> 01:02:22.948 that's something we're going to try and

NOTE Confidence: 0.88817352

01:02:22.948 --> 01:02:25.388 do moving forward with some level of.

NOTE Confidence: 0.88817352

01:02:25.390 --> 01:02:25.840 Record.

NOTE Confidence: 0.842993931666667

01:02:27.400 --> 01:02:29.976 Yeah. And and and another note is

NOTE Confidence: 0.842993931666667

01:02:29.976 --> 01:02:32.728 that in our headache studies we

NOTE Confidence: 0.842993931666667

01:02:32.728 --> 01:02:35.333 there is also no psychotherapy,

NOTE Confidence: 0.842993931666667

01:02:35.340 --> 01:02:37.605 we're not treating an underlying

NOTE Confidence: 0.842993931666667

01:02:37.605 --> 01:02:39.417 underlying depression or anxiety.

NOTE Confidence: 0.842993931666667

01:02:39.420 --> 01:02:41.996 So it's a similar the we the patients

NOTE Confidence: 0.842993931666667

01:02:41.996 --> 01:02:44.903 are are given the capsule and the nurses

NOTE Confidence: 0.842993931666667

01:02:44.903 --> 01:02:47.578 are there to check vitals and such,

NOTE Confidence: 0.842993931666667

01:02:47.580 --> 01:02:49.388 but we don't sit with the patients either.

NOTE Confidence: 0.842993931666667

01:02:49.390 --> 01:02:53.128 And this this is also supportive of

NOTE Confidence: 0.842993931666667

01:02:53.128 --> 01:02:55.784 decades of patients self medicating with

NOTE Confidence: 0.842993931666667

01:02:55.784 --> 01:02:58.160 these compounds in their living rooms.

NOTE Confidence: 0.842993931666667

01:02:58.160 --> 01:03:00.780 Without, without psychiatry or

NOTE Confidence: 0.842993931666667

01:03:00.780 --> 01:03:02.745 medical professionals there.

NOTE Confidence: 0.842993931666667

01:03:02.750 --> 01:03:05.615 So there certainly is there

NOTE Confidence: 0.842993931666667

01:03:05.615 --> 01:03:07.907 there separating out the,

NOTE Confidence: 0.842993931666667

01:03:07.910 --> 01:03:10.255 the effects of the drug versus the

NOTE Confidence: 0.842993931666667

01:03:10.255 --> 01:03:13.069 effect of the of of the setting and

NOTE Confidence: 0.842993931666667

01:03:13.069 --> 01:03:15.266 of any other procedures like like

NOTE Confidence: 0.842993931666667

01:03:15.266 --> 01:03:17.534 therapy have to be separated out.

NOTE Confidence: 0.66771406

01:03:18.900 --> 01:03:19.300 Agreed.

NOTE Confidence: 0.78598188

01:03:22.720 --> 01:03:26.510 I just, um, I guys, can you hear me? Yes,

NOTE Confidence: 0.832813497142857

01:03:26.510 --> 01:03:29.800 I had a quick question about the concept

NOTE Confidence: 0.832813497142857

01:03:29.800 --> 01:03:31.624 of individuals like seeing the grading

NOTE Confidence: 0.832813497142857

01:03:31.624 --> 01:03:33.660 on the wall even though ordinarily

NOTE Confidence: 0.832813497142857

01:03:33.660 --> 01:03:36.022 wouldn't wouldn't attend to it and that

NOTE Confidence: 0.832813497142857

01:03:36.022 --> 01:03:37.408 kind of being the underlying basis

NOTE Confidence: 0.832813497142857

01:03:37.408 --> 01:03:39.156 for some of the things they perceive.

NOTE Confidence: 0.832813497142857

01:03:39.160 --> 01:03:42.394 I'm wondering if you have any knowledge.

NOTE Confidence: 0.832813497142857

01:03:42.400 --> 01:03:45.060 And literature on attention

NOTE Confidence: 0.832813497142857

01:03:45.060 --> 01:03:47.720 work using these substances,

NOTE Confidence: 0.832813497142857

01:03:47.720 --> 01:03:49.502 because a lot of the theories

NOTE Confidence: 0.832813497142857

01:03:49.502 --> 01:03:51.099 of attention postulate that the

NOTE Confidence: 0.832813497142857

01:03:51.099 --> 01:03:53.199 attention spotlight is not actually an

NOTE Confidence: 0.832813497142857

01:03:53.199 --> 01:03:54.979 enhancement of attention on one thing,

NOTE Confidence: 0.832813497142857

01:03:54.980 --> 01:03:56.900 but it's the ability to inhibit

NOTE Confidence: 0.832813497142857

01:03:56.900 --> 01:03:58.920 things you're not attending to.

NOTE Confidence: 0.832813497142857

01:03:58.920 --> 01:04:01.718 And if that is kind of if these

NOTE Confidence: 0.832813497142857

01:04:01.718 --> 01:04:03.729 preferences are kind of impairing that

NOTE Confidence: 0.832813497142857

01:04:03.729 --> 01:04:06.214 normal capability and if has there been,

NOTE Confidence: 0.832813497142857

01:04:06.220 --> 01:04:08.208 you know, attempts to do like Posner

NOTE Confidence: 0.832813497142857

01:04:08.208 --> 01:04:10.307 cueing tasks or other attention based

NOTE Confidence: 0.832813497142857

01:04:10.307 --> 01:04:12.677 tasks while they're using these substances?

NOTE Confidence: 0.903506822

01:04:13.600 --> 01:04:14.932 So I'm not aware of anyone

NOTE Confidence: 0.903506822

01:04:14.932 --> 01:04:15.820 has actually done that.

NOTE Confidence: 0.903506822

01:04:15.820 --> 01:04:17.818 But I, I, I, I think I agree with

NOTE Confidence: 0.903506822

01:04:17.818 --> 01:04:19.666 your hypothesis that what these drugs

NOTE Confidence: 0.903506822

01:04:19.666 --> 01:04:22.222 may be doing is basically impairing

NOTE Confidence: 0.903506822

01:04:22.222 --> 01:04:25.477 our normal filtering capacity of

NOTE Confidence: 0.903506822

01:04:25.477 --> 01:04:28.200 filtering out irrelevant stimuli.

NOTE Confidence: 0.903506822

01:04:28.200 --> 01:04:31.552 And so the kinds of things that would

NOTE Confidence: 0.903506822

01:04:31.552 --> 01:04:34.380 support that hypothesis is the air

NOTE Confidence: 0.903506822

01:04:34.380 --> 01:04:37.215 conditioner that I was previously unaware of.

NOTE Confidence: 0.903506822

01:04:37.220 --> 01:04:39.916 I'm now aware of the noise it's making.

NOTE Confidence: 0.903506822

01:04:39.920 --> 01:04:41.930 Or I was previously unaware of

NOTE Confidence: 0.903506822

01:04:41.930 --> 01:04:44.415 the IV line dripping and now I can

NOTE Confidence: 0.903506822

01:04:44.415 --> 01:04:46.430 hear the dripping of the IV line.

NOTE Confidence: 0.903506822

01:04:46.430 --> 01:04:49.508 And and so that extends to

NOTE Confidence: 0.903506822

01:04:49.508 --> 01:04:51.047 also visual stimuli.

NOTE Confidence: 0.903506822

01:04:51.050 --> 01:04:52.967 I think I I saw a lot of that

NOTE Confidence: 0.903506822

01:04:52.967 --> 01:04:54.934 with some of the early ketamine

NOTE Confidence: 0.903506822

01:04:54.934 --> 01:04:57.105 studies where we were using much

NOTE Confidence: 0.903506822

01:04:57.105 --> 01:04:59.170 higher doses of ketamine that's

NOTE Confidence: 0.903506822

01:04:59.170 --> 01:05:01.181 current than what's currently used

NOTE Confidence: 0.903506822

01:05:01.181 --> 01:05:02.936 in the treatment of depression.

NOTE Confidence: 0.903506822

01:05:02.940 --> 01:05:05.976 And we would often notice that

NOTE Confidence: 0.903506822

01:05:05.976 --> 01:05:08.490 subjects would would notice seemingly

NOTE Confidence: 0.903506822

01:05:08.490 --> 01:05:10.990 irrelevant stimuli in the environment

NOTE Confidence: 0.903506822

01:05:10.990 --> 01:05:13.989 that they were previously unaware of.

NOTE Confidence: 0.903506822

01:05:13.990 --> 01:05:15.845 So you may be on onto something

NOTE Confidence: 0.903506822

01:05:15.845 --> 01:05:17.729 and I'm sure it can be tested.

NOTE Confidence: 0.903506822

01:05:17.730 --> 01:05:19.650 In this kind in these kinds

NOTE Confidence: 0.903506822

01:05:19.650 --> 01:05:20.610 of laboratory experiments,

NOTE Confidence: 0.783896577272727

01:05:20.730 --> 01:05:22.656 yeah. And I'm a quick adding

NOTE Confidence: 0.783896577272727

01:05:22.656 --> 01:05:24.810 adding to that they experienced.

NOTE Confidence: 0.783896577272727

01:05:24.810 --> 01:05:26.994 So I was curious in this case.

NOTE Confidence: 0.783896577272727

01:05:27.000 --> 01:05:28.696 Part of that would be if they're more

NOTE Confidence: 0.783896577272727

01:05:28.696 --> 01:05:30.075 aware of like they're interoceptive

NOTE Confidence: 0.783896577272727

01:05:30.075 --> 01:05:32.175 processes like body position or met by

NOTE Confidence: 0.783896577272727

103

01:05:32.229 --> 01:05:34.077 explain the body sensations they report.

NOTE Confidence: 0.783896577272727

01:05:34.080 --> 01:05:35.832 But in that case you would

NOTE Confidence: 0.783896577272727

01:05:35.832 --> 01:05:37.000 think that they would.

NOTE Confidence: 0.783896577272727

01:05:37.000 --> 01:05:39.408 Report on like the sudden versus event.

NOTE Confidence: 0.783896577272727

01:05:39.410 --> 01:05:40.892 They would report on feeling odd

NOTE Confidence: 0.783896577272727

01:05:40.892 --> 01:05:42.860 if they had low blood pressure or,

NOTE Confidence: 0.783896577272727

01:05:42.860 --> 01:05:45.330 you know, feeling. More tense.

NOTE Confidence: 0.783896577272727

01:05:45.330 --> 01:05:46.830 If they have the physical,

NOTE Confidence: 0.783896577272727

01:05:46.830 --> 01:05:48.150 you know the heartbeat going up.

NOTE Confidence: 0.783896577272727

01:05:48.150 --> 01:05:50.016 And maybe that could explain the

NOTE Confidence: 0.783896577272727

01:05:50.016 --> 01:05:51.900 30 minute sudden anxiety and the

NOTE Confidence: 0.783896577272727

01:05:51.900 --> 01:05:53.634 30 minute sudden ledonia if they're

NOTE Confidence: 0.783896577272727

01:05:53.634 --> 01:05:55.532 like more aware of potentially

NOTE Confidence: 0.783896577272727

01:05:55.532 --> 01:05:56.789 negative body sensations.

NOTE Confidence: 0.783896577272727

01:05:56.790 --> 01:05:57.170 But that's

NOTE Confidence: 0.853948153333333

01:05:57.180 --> 01:05:57.699 just a thought.

NOTE Confidence: 0.837744654285714

01:05:58.930 --> 01:06:00.185 I think that's a really

NOTE Confidence: 0.837744654285714

01:06:00.185 --> 01:06:05.070 good thought, yeah. Yeah. I

NOTE Confidence: 0.853503579166667

01:06:05.080 --> 01:06:08.544 mean we clearly saw some subjects who were

NOTE Confidence: 0.853503579166667

01:06:08.544 --> 01:06:11.060 had significant anticipatory anxiety.

NOTE Confidence: 0.853503579166667

01:06:11.060 --> 01:06:15.976 Hmm, which which really influenced the.

NOTE Confidence: 0.853503579166667

01:06:15.976 --> 01:06:20.050 Their experience of the first dose,

NOTE Confidence: 0.853503579166667

01:06:20.050 --> 01:06:22.290 but then they were able to get over

NOTE Confidence: 0.853503579166667

01:06:22.290 --> 01:06:24.516 it and and come back for the 2nd dose.

NOTE Confidence: 0.543368206

01:06:27.080 --> 01:06:29.680 Yeah, thanks. This is fascinating.

NOTE Confidence: 0.543368206

01:06:29.680 --> 01:06:32.198 Yeah. Remind me how long

NOTE Confidence: 0.894283296363636

01:06:32.210 --> 01:06:34.235 was the the the gap between the 1st and

NOTE Confidence: 0.894283296363636

01:06:34.235 --> 01:06:36.480 2nd dose? Was that fixed or variable?

NOTE Confidence: 0.718875178

01:06:36.750 --> 01:06:38.010 It was variable? It was,

NOTE Confidence: 0.718875178

01:06:38.010 --> 01:06:41.034 I think it was three to seven day

NOTE Confidence: 0.718875178

01:06:41.034 --> 01:06:43.490 window closer to three days. Thanks.

NOTE Confidence: 0.8815278

01:06:49.150 --> 01:06:49.900 OK.

NOTE Confidence: 0.9368441

01:06:52.610 --> 01:06:55.198 OK. Well, thank you so

NOTE Confidence: 0.9368441

01:06:55.198 --> 01:06:57.008 much both Sharif and Cyril.

NOTE Confidence: 0.906912911428571

01:06:57.010 --> 01:06:59.929 This is exciting and exciting new area.

NOTE Confidence: 0.906912911428571

01:06:59.930 --> 01:07:01.460 And serial, the point you make

NOTE Confidence: 0.906912911428571

01:07:01.460 --> 01:07:03.062 about you know the the rapid

NOTE Confidence: 0.906912911428571

01:07:03.062 --> 01:07:04.628 action and short half life mean

NOTE Confidence: 0.906912911428571

01:07:04.628 --> 01:07:06.350 that you can adjust the timing.

NOTE Confidence: 0.906912911428571

01:07:06.350 --> 01:07:07.934 You know the if you can adjust both

NOTE Confidence: 0.906912911428571

01:07:07.934 --> 01:07:09.059 the intensity and the duration,

NOTE Confidence: 0.906912911428571

01:07:09.060 --> 01:07:10.836 that opens the door to a lot of

NOTE Confidence: 0.906912911428571

01:07:10.836 --> 01:07:11.950 really interesting manipulations.

NOTE Confidence: 0.906912911428571

01:07:11.950 --> 01:07:12.859 This is exciting.

NOTE Confidence: 0.92712125

01:07:14.220 --> 01:07:16.080 Thank you. Alright,

NOTE Confidence: 0.91457969

01:07:16.850 --> 01:07:17.860 thank you all for coming.

NOTE Confidence: 0.814838445555556

01:07:18.050 --> 01:07:19.078 We'll have another meeting

NOTE Confidence: 0.814838445555556

01:07:19.078 --> 01:07:20.363 at the seminar in April.

NOTE Confidence: 0.814838445555556

01:07:20.370 --> 01:07:21.490 I'm not sure who who

NOTE Confidence: 0.814838445555556

01:07:21.490 --> 01:07:22.610 will line up for that.

NOTE Confidence: 0.814838445555556

01:07:22.610 --> 01:07:24.258 I'm open to suggestions.

NOTE Confidence: 0.736011996363636

01:07:25.640 --> 01:07:27.080 It's a great doctor.

NOTE Confidence: 0.736011996363636

01:07:27.080 --> 01:07:29.850 Schindler has a number of ongoing studies.

NOTE Confidence: 0.736011996363636

01:07:29.850 --> 01:07:33.274 Yes, it was syben and and you know.

NOTE Confidence: 0.736011996363636

01:07:33.280 --> 01:07:34.732 Headache disorders. Yep.

NOTE Confidence: 0.736011996363636

01:07:34.732 --> 01:07:37.152 And then I think Patrick

NOTE Confidence: 0.736011996363636

01:07:37.152 --> 01:07:39.980 has Patrick and Jordan.

NOTE Confidence: 0.736011996363636

01:07:39.980 --> 01:07:43.368 We just looked over some of our.

NOTE Confidence: 0.736011996363636

01:07:43.370 --> 01:07:46.787 Our EEG findings. Typing.

NOTE Confidence: 0.736011996363636

01:07:46.787 --> 01:07:48.972 And one of them could

NOTE Confidence: 0.736011996363636

01:07:48.972 --> 01:07:51.300 present to wonderful. OK.

NOTE Confidence: 0.840612846666667

01:07:51.690 --> 01:07:54.786 Thank you. I'll be in touch.

NOTE Confidence: 0.840612846666667

01:07:54.790 --> 01:07:56.770 All right. Take care, everyone.

NOTE Confidence: 0.840612846666667

01:07:56.770 --> 01:07:58.096 Thanks again. Have a good weekend.