WEBVTT

 $1\ 00:00:00.000 \longrightarrow 00:00:02.460 < v \longrightarrow Dr.$ Palinkas, and so briefly, </v>

 $2\ 00:00:02.460 \longrightarrow 00:00:04.830$ I'll just share that this seminar

 $3\ 00:00:04.830 \longrightarrow 00:00:08.199$ is sponsored by the Center for Methods

4 00:00:08.199 --> 00:00:10.170 and Implementation and Prevention Science,

 $5\ 00:00:10.170 \longrightarrow 00:00:12.510$ our qualitative methods innovation program

6 00:00:12.510 --> 00:00:14.220 at the Yale School of Public Health,

7 00:00:14.220 --> 00:00:16.950 our Department of Social and Behavioral Sciences,

8 00:00:16.950 --> 00:00:18.801 and the Yale Child Study Center

9 00:00:18.801 --> 00:00:22.299 and our NIH T32 training grant

 $10\ 00:00:22.299 \longrightarrow 00:00:25.233$ for implementation science research methods.

11 00:00:26.088 --> 00:00:29.070 And so our qualitative methods innovation program,

 $12\ 00:00:29.070 \longrightarrow 00:00:31.860$ this is the second seminar that we've had,

13 00:00:31.860 --> 00:00:34.500 we're deeply grateful and lucky

14 $00{:}00{:}34{.}500 \dashrightarrow 00{:}00{:}36{.}720$ to have Prof. Palinkas here.

 $15\ 00:00:36.720 \longrightarrow 00:00:39.617$ So he's a distinguished professor of social policy

16 00:00:39.617 --> 00:00:44.300 and this Suzanne Dworak-Peck School of Social Work

17 $00:00:44.300 \rightarrow 00:00:46.500$ at the University of Southern California.

18 $00{:}00{:}46.500 \dashrightarrow 00{:}00{:}49.530$ He holds secondary appointments in anthropology

 $19\ 00:00:49.530 \longrightarrow 00:00:53.400$ and public health sciences at USC.

20 00:00:53.400 --> 00:00:56.613 And as a medical anthropologist myself,

21 00:00:57.990 --> 00:01:01.050 Dr. Palinkas' contributions to the field

 $22\ 00:01:01.050 \longrightarrow 00:01:03.130$ of implementation science have allowed

23 00:01:03.990 $\rightarrow 00:01:07.620$ for younger scholars like myself and others

 $24\ 00:01:07.620 \longrightarrow 00:01:10.680$ to robustly integrate ethnographic

 $25\ 00{:}01{:}10.680$ --> $00{:}01{:}13.290$ and other innovative methods to help illuminate,

26 00:01:13.290 --> 00:01:16.500 improve and inform healthcare delivery.

27 00:01:16.500 --> 00:01:19.260 Among many innovations, he's developed and packaged

28 00:01:19.260 --> 00:01:22.410 the rapid assessment procedure for clinical ethnography,

29 00:01:22.410 --> 00:01:25.900 and he worked to develop and make accessible 30 00:01:26.803 --> 00:01:29.508 important approaches to improve the implementation

 $31\ 00:01:29.508 \longrightarrow 00:01:30.870$ of brief interventions for trauma survivors,

 $32\ 00:01:30.870 \longrightarrow 00:01:34.024$ for adolescents accessing mental health services

33 00:01:34.024 --> 00:01:35.790 and for mental health services

 $34\ 00:01:35.790 \longrightarrow 00:01:37.200$ that more recently are deployed

 $35\ 00:01:37.200 \longrightarrow 00:01:39.960$ in acute care settings during COVID.

36 $00{:}01{:}39{.}960 \dashrightarrow 00{:}01{:}42{.}390$ And so his current research encompasses

 $37\ 00:01:42.390 \longrightarrow 00:01:43.560$ the implementation of child

 $38\ 00:01:43.560 \longrightarrow 00:01:45.810$ and adolescent mental health services,

39 00:01:45.810 --> 00:01:48.600 the sustainment of prevention programs and initiatives

40 00:01:48.600 --> 00:01:52.680 and effects of climate change on vulnerable populations.

41 00:01:52.680 --> 00:01:56.850 And I'm sure he'll share with us some of the new ideas

 $42\ 00:01:56.850 \longrightarrow 00:01:59.280$ and projects that he has on his mind.

 $43\ 00:01:59.280 \longrightarrow 00:02:01.775$ And we look forward to discussions about that

44 00:02:01.775 --> 00:02:04.050 during and after the talk.

 $45\ 00{:}02{:}04.050 \dashrightarrow 00{:}02{:}07.080$ And so we're deeply appreciative of him taking the time

46 00:02:07.080 --> 00:02:09.900 to come all the way here and spend the day with us.

 $47\ 00:02:09.900 \longrightarrow 00:02:12.240$ And so, I'll hand it over to him.

48 00:02:12.240 $\rightarrow 00:02:14.460$ The title of his seminar is Innovations

 $49\ 00:02:14.460$ --> 00:02:17.343 and the Use of Mixed Methods and Implementation Research.

 $50\ 00:02:19.913 \longrightarrow 00:02:21.990 < v \longrightarrow Well$, thank you, Ashley. </v>

 $51\ 00:02:21.990 \longrightarrow 00:02:25.190$ And it is indeed a pleasure to be here.

52 00:02:25.190 --> 00:02:30.190 In fact, last time I was here was almost 50 years ago,

53 00:02:31.710 --> 00:02:32.940 and that was even before

 $54\ 00:02:32.940 \longrightarrow 00:02:35.220$ there was a Yale School of Public Health.

55 00:02:35.220 --> 00:02:36.370 <v ->Oh, wow.</v>

 $56\ 00:02:36.370 \longrightarrow 00:02:40.892 < v \longrightarrow So$ it is exciting to be able to be here </v >

 $57\ 00:02:40.892 \longrightarrow 00:02:45.273$ and to spend this time with you all.

58 00:02:48.517 $\rightarrow 00:02:50.220$ I was asked to talk about some of the things

 $59\ 00:02:50.220 \longrightarrow 00:02:52.060$ that we've been working on

 $60\ 00:02:53.825 \rightarrow 00:02:57.595$ with respect to the use of mixed methods

 $61\ 00:02:57.595 \longrightarrow 00:03:00.780$ in implementation research.

62 00:03:00.780 --> 00:03:05.073 And so what I will focus on is,

63 00:03:06.291 --> 00:03:08.470 and just to give you a brief overview about

64 00:03:09.875 --> 00:03:12.810 how mixed methods have been used in implementation research,

 $65\ 00:03:12.810 \longrightarrow 00:03:16.590$ and then highlight three particular projects

 $66\ 00:03:16.590 \longrightarrow 00:03:19.927$ that I've been working on that illustrate

 $67\ 00{:}03{:}19{.}927$ --> $00{:}03{:}24{.}927$ the use of these methods in addressing important issues

 $68\ 00{:}03{:}24.960$ --> $00{:}03{:}29.850$ related to implementation of evidence-based interventions,

 $69\ 00:03:29.850 \longrightarrow 00:03:32.730$ policies, and programs.

70 $00:03:32.730 \rightarrow 00:03:36.577$ So let me first start by talking about

71 00:03:36.577 --> 00:03:38.643 what mixed methods are.

 $72\ 00:03:39.510$ --> 00:03:44.510 And typically we call them at a particular methodology,

 $73\ 00:03:45.180 \longrightarrow 00:03:48.900$ even though we have methods implies plural.

74 00:03:48.900 --> 00:03:52.380 But it is a methodology for collecting, analyzing,

75 00:03:52.380 --> 00:03:55.860 and mixing both quantitative and qualitative data

 $76\ 00:03:55.860 \longrightarrow 00:03:58.950$ in a single study or series of studies.

77 00:03:58.950 --> 00:04:01.860 The idea being that when you combine

 $78\ 00:04:01.860 \longrightarrow 00:04:03.540$ the two sets of methods,

 $79\ 00:04:03.540 \longrightarrow 00:04:06.120$ you're able to get a much better understanding $80\ 00:04:06.120 \longrightarrow 00:04:10.983$ of a research problem than either research approach alone.

 $81\ 00:04:12.450 \longrightarrow 00:04:15.570$ In combining the methods,

 $82\ 00:04:15.570 \longrightarrow 00:04:18.870$ which is the key element to a mixed method,

 $83\ 00:04:18.870 \longrightarrow 00:04:21.510$ as opposed to a multi-method study.

84 00:04:21.510 --> 00:04:25.770 It's not merely parallel play where you have somebody

8500:04:25.770 --> 00:04:27.420 who's doing the quantitative study

 $86\ 00:04:27.420 \longrightarrow 00:04:29.370$ and somebody doing the qualitative study

 $87\ 00:04:29.370 \longrightarrow 00:04:31.380$ with no interaction.

88 $00:04:31.380 \rightarrow 00:04:34.110$ It's really based on the interaction.

89 $00{:}04{:}34{.}110 \dashrightarrow 00{:}04{:}36{.}930$ So in a sense, you can think of it as a model of,

 $90\ 00:04:36.930 \longrightarrow 00:04:40.680$ as well as a model for interdisciplinary

91 $00:04:40.680 \rightarrow 00:04:43.233$ and even transdisciplinary research.

92 00:04:44.220 --> 00:04:49.140 It also allows you to simultaneously answer confirmatory

 $93\ 00:04:49.140 \longrightarrow 00:04:51.060$ and exploratory questions,

94 00:04:51.060 --> 00:04:54.960 thereby you can both generate a theory

 $95\ 00:04:54.960 \longrightarrow 00:04:57.363$ and verify it in the same studies.

96 00:04:58.650 --> 00:05:03.650 The elements of mixed methods depend on both the structure,

 $97\ 00:05:04.830 \longrightarrow 00:05:06.600$ the function, and the operation.

98 00:05:06.600 --> 00:05:08.790 So in terms of the structure,

99 00:05:08.790 --> 00:05:11.763 how you connect the data in a mixed method study

100 00:05:11.763 --> 00:05:15.960 may depend on timing and the weight and authority

 $101\ 00:05:15.960 \longrightarrow 00:05:18.573$ that you assign to each type of method.

 $102\ 00:05:19.410 \longrightarrow 00:05:22.020$ You can collect the data simultaneously

103 00:05:22.020 $\rightarrow 00:05:24.660$ as so that you're collecting both quantitative

 $104\ 00:05:24.660$ --> 00:05:28.080 and qualitative data at the same time.

 $105 \ 00:05:28.080 \longrightarrow 00:05:30.720$ Or sequentially, where you use one method

 $106 \ 00:05:30.720 \longrightarrow 00:05:32.043$ followed by the other.

 $107\ 00:05:32.910 \longrightarrow 00:05:34.860$ You can also vary the priority

 $108\ 00:05:34.860 \longrightarrow 00:05:36.720$ that you assign to each method,

109 00:05:36.720 --> 00:05:40.200 so that if you're giving priority the qualitative method,

 $110\ 00:05:40.200 \longrightarrow 00:05:43.889$ it's indicated by QUAL being in capital letters.

111 00:05:43.889 --> 00:05:45.750 And that similarly,

112 00:05:45.750 --> 00:05:48.360 if you're giving priority to the quantitative methods,

113 00:05:48.360 --> 00:05:52.110 the QUAN is and capital methods, capital letters,

 $114\ 00:05:52.110 \longrightarrow 00:05:55.410$ or you can give equal priority to both methods,

 $115\ 00:05:55.410 \longrightarrow 00:05:57.180$ even though there are some people who think

 $116\ 00:05:57.180 \longrightarrow 00:05:59.283$ that that's not really possible.

117 00:06:00.870 --> 00:06:05.870 The other aspect of mixed methods is the iterative process

118 00:06:06.390 --> 00:06:09.000 of data collection and analysis,

119 $00{:}06{:}09{.}000 \dashrightarrow 00{:}06{:}13.440$ so that you may begin with quantitative methods

120 00:06:13.440 --> 00:06:15.600 to collect the data and analyze it

121 00:06:15.600 --> 00:06:19.980 leading to the collection or analysis of qualitative data,

122 00:06:19.980 --> 00:06:22.980 which leads to further quantitative

 $123 \ 00:06:22.980 \longrightarrow 00:06:26.562$ data collection and analysis.

124 00:06:26.562 --> 00:06:31.562 This chart shows you the five major uses of mixed methods

125 00:06:34.135 --> 00:06:35.670 in implementation research.

126 $00{:}06{:}35{.}670$ --> $00{:}06{:}40{.}670$ Similar to the typology of mixed method designs

127 00:06:41.008 --> 00:06:43.410 that Creswell and Plano Clark,

 $128\ 00{:}06{:}43.410$ --> $00{:}06{:}48.410$ who written the stamp, the bible of mixed method research.

129 00:06:50.340 --> 00:06:53.550 There are five major types of mixed method uses

 $130\ 00:06:53.550 \longrightarrow 00:06:56.070$ in implementation science.

131 00:06:56.070 --> 00:07:00.090 Convergence, where you are corroborating data

132 00:07:00.090 --> 00:07:05.090 from different sources to come to either similar conclusions

133 $00:07:06.402 \rightarrow 00:07:11.402$ or the quantization of qualitative data.

134 00:07:12.953 --> 00:07:17.953 Complementarity intends to understand a phenomenon

135 00:07:19.117 --> 00:07:24.117 more completely by focusing on the breadth of understanding

 $136\ 00:07:24.630 \longrightarrow 00:07:26.280$ through quantitative analysis

137 00:07:26.280 --> 00:07:30.390 but a depth of understanding through qualitative analysis.

138 $00{:}07{:}30{.}390 \dashrightarrow 00{:}07{:}34{.}620$ Expansion is often used to help explain

 $139\ 00:07:34.620 \longrightarrow 00:07:37.323$ the findings from one study.

140 00:07:37.323 --> 00:07:41.940 So you may get a finding from a quantitative analysis

141 00:07:41.940 $\rightarrow 00:07:45.690$ of a survey that produces unexpected results

142 00:07:45.690 $\rightarrow 00:07:48.960$ follow that up with a qualitative study

143 00:07:48.960 --> 00:07:53.490 to come to some explanation to answer the question why

144 $00{:}07{:}53.490 \dots > 00{:}07{:}57.843$ that a quantitative study alone is not designed to answer.

145 $00{:}07{:}58.830 \dashrightarrow 00{:}08{:}02.070$ We also use mixed methods for exploration

146 00:08:02.070 --> 00:08:03.003 and development.

147 $00:08:04.083 \rightarrow 00:08:06.570$ Oftentimes, we will use qualitative methods

148 00:08:06.570 \rightarrow 00:08:10.447 to identify the way to ask questions in a survey

 $149\ 00:08:10.447 \longrightarrow 00:08:14.402$ or to develop hypotheses to be tested

150 00:08:14.402 --> 00:08:18.930 or a framework that guides that hypothesis testing,

 $151\ 00:08:18.930 \longrightarrow 00:08:22.140$ and then the quantitative methods

 $152\ 00{:}08{:}22.140$ --> $00{:}08{:}26.073$ to test the hypothesis or validate the framework.

153 00:08:27.090 --> 00:08:29.730 And then finally, we may use it for sampling,

 $154\ 00{:}08{:}29.730 \dashrightarrow 00{:}08{:}34.680$ so that often times on the basis of quantitative data,

 $155\ 00{:}08{:}34.680\ -{-}>\ 00{:}08{:}38.850$ we may select participants for qualitative study,

 $156\ 00{:}08{:}38.850$ --> $00{:}08{:}42.750$ either focus groups or semi-structured interviews.

157 00:08:42.750 --> 00:08:46.800 We can also reverse the process and use qualitative data

158 00:08:46.800 --> 00:08:48.310 to create categories

159 00:08:49.195 --> 00:08:50.880 that can then be compared quantitatively,

160 00:08:50.880 --> 00:08:52.443 which I will show you later.

161 00:08:53.310 --> 00:08:57.647 Each of those functions carries with it

162 00:08:57.647 --> 00:09:01.890 a variation of timing of data collection,

 $163\ 00:09:01.890 \longrightarrow 00:09:05.791$ so it may be sequential or concurrent.

 $164\ 00:09:05.791 \longrightarrow 00:09:09.780$ And the analysis can occur both,

165 00:09:09.780 --> 00:09:14.780 or the mixing of the data can occur both in data collection

166 00:09:15.028 --> 00:09:20.028 through convergence or analysis and interpretation

167 00:09:20.430 --> 00:09:22.260 through the other methods

168 $00:09:22.260 \rightarrow 00:09:24.750$ or throughout through the sampling.

169 00:09:24.750 --> 00:09:29.750 And they may involve the combination of equal weights of

170 00:09:29.790 $\rightarrow 00:09:31.830$ quantitative and qualitative data

 $171\ 00:09:31.830 \longrightarrow 00:09:35.013$ or priority being given to one or the other.

 $172\ 00:09:38.613 \longrightarrow 00:09:43.200$ Now, how to decide which function to use.

173 00:09:43.200 --> 00:09:46.200 I usually recommend that when you're seeking answers

 $174\ 00:09:46.200 \longrightarrow 00:09:47.460$ to the same question,

175 00:09:47.460 --> 00:09:52.460 use convergence as a strategy for mixing the methods.

176 00:09:52.950 --> 00:09:56.190 When you're seeking answers to related questions,

177 00:09:56.190 --> 00:10:01.050 you may use it for the purpose of complementarity

178 00:10:01.050 --> 00:10:03.720 to gain a comprehensive understanding.

179 00:10:03.720 --> 00:10:07.620 When the findings based on one method raises questions

180 00:10:07.620 --> 00:10:10.798 that can answer be answered by the other method.

 $181\ 00:10:10.798 \longrightarrow 00:10:14.070$ The function is expansion.

182 00:10:14.070 --> 00:10:17.970 When the findings based on one method are prerequisite

183 00:10:17.970 --> 00:10:21.810 for the use of another method, such as developing a survey,

184 00:10:21.810 --> 00:10:23.550 then that's development.

185 $00{:}10{:}23.550 \dashrightarrow 00{:}10{:}26.190$ And when one method can use to define

 $186\ 00:10:26.190 \longrightarrow 00:10:28.126$ or identify participant samples

 $187\ 00:10:28.126 \longrightarrow 00:10:31.020$ for collecting and analyzing data,

188 00:10:31.020 --> 00:10:34.113 representing the other method, that is sampling.

189 00:10:35.220 --> 00:10:37.680 There are three ways of mixing quantitative 190 00:10:37.680 --> 00:10:39.656 and qualitative data.

191 00:10:39.656 --> 00:10:42.270 You can merge the data in which you bring

 $192\ 00:10:42.270 \longrightarrow 00:10:46.980$ the two types of data to develop your results.

193 00:10:46.980 --> 00:10:51.630 You can connect the data where you take one data

194 $00{:}10{:}51{.}630 \dashrightarrow 00{:}10{:}56{.}400$ from one method to generate and assist

 $195\ 00:10:56.400 \longrightarrow 00:10:59.100$ and generation of data from another method $196\ 00:10:59.100 \longrightarrow 00:11:01.020$ to obtain your results.

197 00:11:01.020 --> 00:11:04.890 Or you can embed the data, as is typically the case

198 00:11:04.890 --> 00:11:07.080 in randomized controlled trials

 $199\ 00:11:07.080 \longrightarrow 00:11:09.390$ where qualitative data may be used

 $200\ 00:11:09.390 \longrightarrow 00:11:12.376$ to help explain the process

201 00:11:12.376 --> 00:11:16.560 by which an intervention works or implementation occurs.

 $202\ 00:11:16.560 \longrightarrow 00:11:19.140$ And the quantitative data can be used

 $203\ 00:11:19.140 \longrightarrow 00:11:20.850$ to describe the outcomes.

204 00:11:20.850 --> 00:11:22.920 <v ->How is that different than merging?</v>

205 00:11:22.920 --> 00:11:23.753 <v ->Pardon?</v>

206 00:11:23.753 --> 00:11:25.160 <v ->How is that different than merging?</v>

207 00:11:26.556 --> 00:11:29.111 <v ->Okay, a good example of merging the data</v>

208 00:11:29.111 --> 00:11:34.111 would be triangulation of quantitative and qualitative data,

209 $00{:}11{:}34{.}170 \dashrightarrow 00{:}11{:}39{.}170$ whereas embedding the data is each dataset

210 00:11:39.450 --> 00:11:41.231 has a different function.

211 00:11:41.231 --> 00:11:42.630 They're asking different sets of questions,

212 00:11:42.630 --> 00:11:45.300 whereas merging the data is asking the same question.

213 00:11:45.300 --> 00:11:46.350 <v ->I understand. Okay.</v>

214 00:11:47.911 --> 00:11:49.680 <v ->And in fact, as the next slide shows</v>

 $215\ 00:11:49.680 \longrightarrow 00:11:51.000$ and answers your question,

 $216\ 00:11:51.000 \longrightarrow 00:11:53.340$ merging the data when you're seeking answers

217 00:11:53.340 --> 00:11:57.300 to the same question, connecting it when answering questions

218 00:11:57.300 --> 00:12:01.140 to relate, you're answering related questions sequentially

219 00:12:01.140 --> 00:12:03.870 or embedding it when you're answering questions

 $220\ 00:12:03.870 \longrightarrow 00:12:06.630$ that are related simultaneously.

221 00:12:06.630 --> 00:12:10.420 So, you can use mixed methods for a variety of reasons

222 00:12:11.491 --> 00:12:13.950 in implementation research.

 $223\ 00:12:13.950 \longrightarrow 00:12:16.500$ We often use them, for example,

224 00:12:16.500 --> 00:12:21.300 to measure intervention or implementation outcomes

225 00:12:21.300 --> 00:12:24.720 in the qualitative methods, as I said earlier,

226 00:12:24.720 --> 00:12:26.490 to measure process.

227 00:12:26.490 --> 00:12:28.710 Or we can use the qualitative methods

228 00:12:28.710 $\rightarrow 00:12:31.080$ to explore the steps of the intervention

 $229\ 00:12:31.080 \longrightarrow 00:12:33.420$ and generate a conceptual model

 $230\ 00:12:33.420 \longrightarrow 00:12:35.550$ along with testable hypotheses,

231 00:12:35.550 --> 00:12:37.440 and then test those hypotheses

 $232\ 00:12:37.440 \longrightarrow 00:12:39.750$ with the quantitative methods.

 $233\ 00:12:39.750 \longrightarrow 00:12:42.360$ Many times we use the quantitative measures

 $234\ 00:12:42.360 \longrightarrow 00:12:45.450$ to examine the content of an intervention

235 00:12:45.450 --> 00:12:48.630 or its implementation and the qualitative methods

236 00:12:48.630 \rightarrow 00:12:52.133 to examine the context in which it occurs.

237 00:12:52.133 --> 00:12:54.540 We can use the quantitative methods

238 00:12:54.540 --> 00:12:58.470 to incorporate the perspectives of the researcher

239 00:12:58.470 --> 00:13:02.640 and the qualitative methods to incorporate the perspectives

240 00:13:02.640 --> 00:13:07.640 of our collaborators, usually the consumers

 $241\ 00:13:07.680 \longrightarrow 00:13:10.800$ of the interventions that we're implementing.

242 00:13:10.800 --> 00:13:14.580 And then finally, we often use one set of methods

243 00:13:14.580 $\rightarrow 00:13:17.280$ to address the limitations of the other.

244 00:13:17.280 --> 00:13:20.610 So in implementation research, for example,

245 00:13:20.610 --> 00:13:24.600 when the unit of analysis is a clinic or organization

 $246\ 00:13:24.600 \longrightarrow 00:13:28.380$ and issues of power may be compromised

247 00:13:28.380 --> 00:13:33.180 by these limited number of available clinics for analysis,

 $248\ 00:13:33.180 \longrightarrow 00:13:38.040$ then validating or confirming the results

249 00:13:38.040 --> 00:13:41.700 from a quantitative analysis using qualitative data

 $250\ 00:13:41.700 \longrightarrow 00:13:46.323$ is another rule that mixed methods can play.

 $251\ 00:13:49.500 \rightarrow 00:13:52.410$ So I'm gonna tell you how these methods

 $252\ 00:13:52.410 \longrightarrow 00:13:54.933$ were mixed in three particular studies.

253 00:13:55.770 --> 00:14:00.360 The first being a study that we did on the development

 $254\ 00:14:00.360 \longrightarrow 00:14:03.210$ of a measure of sustainment

25500:14:03.210 --> 00:14:06.090 of prevention programs and initiatives,

 $256\ 00:14:06.090 \longrightarrow 00:14:07.710$ a study that was funded

257 00:14:07.710 --> 00:14:09.720 through the National Institute Drug Abuse,

 $258\ 00:14:09.720 \longrightarrow 00:14:13.500$ where we merged and connected data

259 00:14:13.500 --> 00:14:18.053 using a structure beginning with qualitative data collection

260 00:14:19.230 --> 00:14:22.950 and an analysis to develop a quantitative scale,

 $261\ 00:14:22.950 \longrightarrow 00:14:25.860$ testing that quantitative scale,

 $262\ 00:14:25.860 \longrightarrow 00:14:29.904$ and then evaluating predictors of sustainment

 $263\ 00:14:29.904 \longrightarrow 00:14:33.393$ using qualitative comparative analysis.

264 00:14:34.260 --> 00:14:38.400 The functions being development of a scale or instrument,

265 00:14:38.400 --> 00:14:43.400 convergence of qualitative data from different data sets.

 $266\ 00:14:43.410 \longrightarrow 00:14:46.620$ And expansion, using the qualitative data

 $267\ 00:14:46.620 \longrightarrow 00:14:49.770$ to explain quantitative findings.

268 00:14:49.770 \rightarrow 00:14:52.717 The second study is an implementation

 $269\ 00:14:52.717 \longrightarrow 00:14:57.717$ effectiveness hybrid trial that targeted the use

270 00:14:58.350 --> 00:15:02.490 of evidence-based interventions for screening

271 00:15:02.490 --> 00:15:06.270 and brief treatment of post-traumatic stress disorder

272 00:15:06.270 --> 00:15:10.050 and substance use disorders in patients

 $273\ 00:15:10.050 \longrightarrow 00:15:12.510$ presenting in trauma centers.

274 00:15:12.510 --> 00:15:16.503 There we embedded and merged the data in a randomized,

 $275\ 00:15:17.967 \longrightarrow 00:15:20.430$ what was it, pragmatic clinical trial

276 00:15:20.430 --> 00:15:23.067 with a focus on quantitative data collection

277 00:15:23.067 --> 00:15:26.880 and simultaneously qualitative data collection

278 00:15:26.880 --> 00:15:30.180 for complementarity and sampling.

279 00:15:30.180 --> 00:15:32.580 The third, I forgot to put the title in,

280 00:15:32.580 --> 00:15:37.560 is a study looking at the impact of the COVID pandemic

281 00:15:37.560 --> 00:15:39.965 on policy and practice implementation

282 00:15:39.965 --> 00:15:44.010 of mental health services for children and adolescents

283 00:15:44.010 --> 00:15:48.057 where we merged the data collecting both quantitative

 $284\ 00{:}15{:}50{.}220$ --> $00{:}15{:}54{.}783$ and qualitative data for the purpose of convergence.

285 00:15:55.830 --> 00:16:00.830 From the first study, we were able to, you know,

 $286\ 00{:}16{:}02.010$ --> $00{:}16{:}07.010$ we focused on the fact that government agencies like SAMHSA,

287 00:16:07.710 --> 00:16:10.657 Substance Abuse Mental Health Services Agency

 $288\ 00:16:10.657 \longrightarrow 00:16:15.300$ fund hundreds of projects that are designed

289 00:16:15.300 --> 00:16:20.190 to deliver drug and HIV prevention programs

290 00:16:20.190 --> 00:16:25.187 as well as mental health services like suicide prevention

291 00:16:25.187 --> 00:16:28.951 and treatment of conduct disorders.

 $292\ 00:16:28.951 \longrightarrow 00:16:33.951$ But being able to sustain these programs,

293 00:16:34.080 --> 00:16:37.920 even though they're explicitly told to include a plan

 $294\ 00:16:37.920 \longrightarrow 00:16:42.030$ for sustainment in the project application

295 00:16:42.030 --> 00:16:45.842 is always an open question because generally we have no way

 $296\ 00:16:45.842 \longrightarrow 00:16:49.080$ of determining the likelihood of sustainment

297 00:16:49.080 --> 00:16:52.980 or providing feedback and to agencies

 $298\ 00:16:52.980 \longrightarrow 00:16:56.250$ that are trying to sustain their programs.

299 00:16:56.250 --> 00:17:00.720 So the aim of this project was to look at core components

300 00:17:00.720 --> 00:17:04.065 of sustainment and how they relate to one another

301 00:17:04.065 --> 00:17:08.283 across times, so that we can increase the likelihood

 $302\ 00{:}17{:}08.283 \dashrightarrow 00{:}17{:}13.283$ of providing useful information that will result in

 $303\ 00:17:14.760 \longrightarrow 00:17:17.840$ successful sustainment of these programs.

 $304\ 00:17:17.840 \longrightarrow 00:17:19.530$ In this particular project,

305 00:17:19.530 --> 00:17:22.710 we designed a measurement system for monitoring

306 00:17:22.710 --> 00:17:27.600 and giving feedback within SAMHSA and then pilot testing

307 00:17:27.600 --> 00:17:29.970 the predictability of that system

 $308\ 00:17:29.970 \longrightarrow 00:17:32.820$ and its feasibility and acceptability.

 $309\ 00:17:32.820 \longrightarrow 00:17:35.880$ So in this study, we essentially began

 $310\ 00:17:35.880 \longrightarrow 00:17:39.570$ with a series of qualitative interviews

311 00:17:39.570 --> 00:17:44.570 with 45 participants of 10 different SAMHSA funded programs.

 $312\ 00:17:45.750 \longrightarrow 00:17:47.340$ And we collected information

313 00:17:47.340 \rightarrow 00:17:50.665 using traditional semi-structured interviews,

314 00:17:50.665 --> 00:17:55.665 a free list exercise, which is often used in anthropology

 $315\ 00{:}17{:}56.850 \dashrightarrow 00{:}18{:}01.410$ to identify semantic domains that are relevant to the people

 $316\ 00:18:01.410 \longrightarrow 00:18:05.220$ that we're working with or studying.

317 00:18:05.220 --> 00:18:10.220 And then a checklist of the consolidated framework

318 00:18:10.740 --> 00:18:12.513 of implementation research.

319 00:18:13.680 --> 00:18:17.790 The results from each of those forms of data collection

 $320\ 00:18:17.790 \longrightarrow 00:18:21.630$ were then merged to identify relevant domains

 $321\ 00:18:21.630 \longrightarrow 00:18:26.085$ of sustainment for SAMHSA funded grantees.

322 00:18:26.085 \rightarrow 00:18:29.715 We use those domains to create a scale

323 00:18:29.715 --> 00:18:34.620 known as the sustainment measurement system scale.

 $324~00{:}18{:}34.620 \dashrightarrow 00{:}18{:}39.620$ had 42 items, one subscale describing sustainment outcomes,

325 00:18:41.670 --> 00:18:46.670 and then six scales describing determinants of sustainment.

 $326\ 00:18:48.120 \longrightarrow 00:18:50.400$ In the next phase of the study,

327 00:18:50.400 --> 00:18:55.400 we then evaluated the validity and reliability of the scale

328 00:18:58.710 --> 00:19:03.710 by collecting data from 200 SAMHSA grantees

329 00:19:04.380 --> 00:19:08.700 representing 145 different organizations that were funded

330 00:19:08.700 --> 00:19:12.090 across seven different SAMSA funded programs.

331 00:19:12.090 --> 00:19:17.090 What we found was a measure that had pretty high

 $332\ 00:19:17.940 \longrightarrow 00:19:20.428$ inter-item reliability of 0.93,

333 00:19:20.428 --> 00:19:25.428 but varying degrees of reliability generally satisfactory

334 00:19:25.925 --> 00:19:30.417 to excellent for each of the subscales.

 $335\ 00:19:31.410 \longrightarrow 00:19:35.940$ We were also able to distinguish the difference

336 00:19:35.940 --> 00:19:39.840 between each of the predictors

 $337\ 00:19:39.840 \longrightarrow 00:19:42.753$ as well as outcomes of sustainability,

338 00:19:43.648 --> 00:19:47.310 particularly the outcomes and whether the program

339 00:19:47.310 --> 00:19:52.080 continued to exist, but were adapted

 $340\ 00:19:52.080 \longrightarrow 00:19:55.083$ and continuing to exist in the same form.

 $341\ 00:19:55.920 \longrightarrow 00:19:58.650$ And then in the third phase of the study,

342 00:19:58.650 --> 00:20:03.650 we used the methodology of qualitative comparative analysis

343 00:20:04.440 --> 00:20:09.318 to identify pathways of predictors

 $344\ 00:20:09.318 \longrightarrow 00:20:13.680$ associated with sustainment.

345 00:20:13.680 --> 00:20:18.510 And we found that as a unit, there were two combinations

 $346\ 00:20:18.510 \longrightarrow 00:20:20.640$ that were significant predictors.

347 00:20:20.640 --> 00:20:23.490 So essentially what you're doing

 $348\ 00:20:23.490 \longrightarrow 00:20:27.330$ is taking the quantitative data

349 00:20:27.330 --> 00:20:30.600 that we had collected from the 200 participants

 $350\ 00:20:30.600 \longrightarrow 00:20:32.643$ in the 145 programs,

351 00:20:33.690 --> 00:20:38.690 and then use the qualitative structured qualitative process

352 00:20:38.698 --> 00:20:43.698 known as QCA to identify community responsiveness

353 00:20:45.570 --> 00:20:47.650 and organizational capacity

 $354\ 00{:}20{:}48.690 \dashrightarrow 00{:}20{:}52.980$ when combined with the CFIR process domain

355 00:20:52.980 --> 00:20:56.820 or community responsiveness and organizational capacity

356 00:20:56.820 --> 00:21:01.230 when combined with coalitions, networks, partnerships.

357 00:21:01.230 --> 00:21:05.430 So the reason why this was of interest to us

358 00:21:05.430 $\rightarrow 00:21:08.970$ is because while frameworks like the CFIR

359 00:21:08.970 --> 00:21:12.540 can identify domains of factors

 $360\ 00:21:12.540 \longrightarrow 00:21:16.110$ that are predictive of successful sustainment,

 $361\ 00:21:16.110 \longrightarrow 00:21:18.840$ they don't prioritize those domains.

362 00:21:18.840 --> 00:21:20.700 And the priority assigned to them

 $363\ 00:21:20.700 \longrightarrow 00:21:23.460$ may vary from one context to the next.

364 00:21:25.472 --> 00:21:26.672 <v Participant>Larry, can I just ask,</v>

365 00:21:26.672 --> 00:21:28.200 I mean, wouldn't you prioritize them

 $366\ 00:21:28.200 \longrightarrow 00:21:30.180$ based on the strength of their association?

367 00:21:30.180 --> 00:21:33.351 Or maybe I'm not fully understanding.

368 00:21:33.351 --> 00:21:36.270 <v ->Like, so the strength of association alone, you know,</v>

369 00:21:36.270 --> 00:21:39.123 that may tell you independent of everything else,

 $370\ 00:21:39.123 \longrightarrow 00:21:43.260$ this predicts for your outcome.

371 00:21:43.260 --> 00:21:47.730 But the reality is that they don't exist independently,

 $372\ 00:21:47.730 \longrightarrow 00:21:49.620$ they exist in combinations.

373 00:21:49.620 --> 00:21:53.130 And the QCA is able to mirror that

 $374\ 00:21:53.130 \longrightarrow 00:21:55.110$ or to take that into account.

375 00:21:55.110 --> 00:21:55.943 <v Participant>Thanks.</v>

376 00:21:55.943 --> 00:21:58.583 <v ->Can you talk a little bit more about the process of QCA?</v>

377 00:22:00.273 --> 00:22:02.043 <v ->I could.</v>

378 00:22:03.153 --> 00:22:08.153 Essentially, it takes a series of configurations.

 $379\ 00:22:11.700 \longrightarrow 00:22:14.880$ So the advantage to QCA

 $380\ 00:22:14.880 \dashrightarrow 00:22:18.930$ is that you can work with limited samples,

381 00:22:18.930 --> 00:22:22.473 you know, as few as eight to 10, for example.

382 00:22:23.550 --> 00:22:28.550 And it can take either quantitative or qualitative data.

383 00:22:29.760 --> 00:22:32.820 The outcome can be either categorical

 $384\ 00:22:32.820 \longrightarrow 00:22:37.097$ in which it can be one form of QCA,

 $385\ 00:22:39.923 \longrightarrow 00:22:43.453$ I'm blanking on the type now.

386 00:22:43.453 --> 00:22:46.800 Or it can be inter an interval level measure,

 $387\ 00:22:46.800 \longrightarrow 00:22:51.800$ which it's a fuzzy-set analysis.

 $388\ 00:22:51.810 \longrightarrow 00:22:55.650$ But it essentially identifies necessary

 $389\ 00:22:55.650 \longrightarrow 00:23:00.650$ and sufficient characteristics or conditions

 $390\ 00:23:01.770 \longrightarrow 00:23:05.459$ by which combinations of variables

 $391\ 00:23:05.459 \longrightarrow 00:23:07.773$ predict the outcome variable.

392 00:23:10.530 --> 00:23:13.380 I could give an entire lecture on QCA,

 $393\ 00:23:13.380 \longrightarrow 00:23:16.380$ but since we're getting short on time here,

 $394\ 00:23:16.380 \longrightarrow 00:23:17.610$ I thought I'd move on

 $395\ 00:23:17.610 \longrightarrow 00:23:21.429$ to what I really wanted to spend time on,

 $396\ 00:23:21.429 \longrightarrow 00:23:25.380$ which is a technique now,

397 00:23:25.380 --> 00:23:30.380 which is a mixed method approach to collecting information

398 00:23:31.980 --> 00:23:35.370 and analyzing it in a much shorter period of time

399 00:23:35.370 --> 00:23:40.370 than typically occurs in most implementation research.

 $400\ 00{:}23{:}40{.}440$ --> $00{:}23{:}44{.}400$ So in the context of the next study I'm going to describe,

401 00:23:44.400 --> 00:23:49.170 we developed a process known as a Rapid Assessment

402 00:23:49.170 --> 00:23:54.170 Procedure-Informed Clinical Ethnography or RAPICE for short.

 $403\;00{:}23{:}56{.}220 \dashrightarrow 00{:}23{:}59{.}943$ And RAPICE essentially takes two traditions,

404 00:24:00.780 --> 00:24:03.450 often used in anthropology.

 $405\ 00{:}24{:}03{.}450$ --> $00{:}24{:}05{.}310$ The RAPICE assessment procedures,

406 00:24:05.310 --> 00:24:09.270 which is a way of collecting and analyzing information

407 00:24:09.270 --> 00:24:12.510 in a short period of time with clinical ethnography,

408 00:24:12.510 --> 00:24:16.350 a traditional approach to understanding clinical issues

409 00:24:16.350 --> 00:24:21.350 or issues of clinical significance by having clinicians

 $410\ 00:24:22.680 \longrightarrow 00:24:26.790$ act as ethnographers or participant observers.

411 $00:24:26.790 \rightarrow 00:24:30.030$ This was intended to meet the requirements

412 00:24:30.030 --> 00:24:33.180 for time-efficient data collection

413 00:24:33.180 --> 00:24:36.659 in pragmatic trials, clinical trials

414 00:24:36.659 --> 00:24:41.290 where you want to have minimal participant burden

 $415\ 00:24:42.329 \longrightarrow 00:24:47.329$ and collect qualitative data fairly quickly.

 $416\ 00:24:48.870 \longrightarrow 00:24:52.440$ The key to this is that rather than being done

 $417\ 00:24:52.440 \longrightarrow 00:24:56.160$ by a single individual, it's done as a team.

 $418\ 00:24:56.160 \longrightarrow 00:24:59.820$ So the interaction between ethnographically

419 $00{:}24{:}59{.}820 \dashrightarrow 00{:}25{:}02{.}500$ trained clinicians or community members

 $420\ 00:25:03.960 \longrightarrow 00:25:06.660$ act in the role of participant observers.

421 00:25:06.660 --> 00:25:10.287 And then you have a clinically trained social scientist

422 00:25:10.287 --> 00:25:15.243 who acts as a mixed method consultant or analyst.

423 00:25:16.320 --> 00:25:21.237 It's that combination that occurs in a series of steps

424 00:25:21.237 --> 00:25:24.540 that is intended to provide some consistency 425 00:25:24.540 --> 00:25:28.740 or rigor to the process of data collection and analysis.

 $426\ 00:25:28.740 \longrightarrow 00:25:30.933$ So, why do we use RAPICE?

 $427\ 00:25:32.032$ --> 00:25:35.550 If we were to do it the way that ethnographers $428\ 00:25:35.550$ --> 00:25:38.730 were traditionally done, it could take up to a year

 $429\ 00:25:38.730 \longrightarrow 00:25:41.700$ just to become familiar with the setting,

 $430\ 00:25:41.700 \longrightarrow 00:25:44.517$ learning the language usually done alone

 $431\ 00:25:44.517 \longrightarrow 00:25:47.070$ and collecting a lot of data, not all

432 00:25:47.070 --> 00:25:52.020 of which is particularly relevant to the kind of questions

433 00:25:52.020 $\rightarrow 00:25:55.020$ that we ask in implementation science.

 $434\ 00:25:55.020 \rightarrow 00:25:58.680$ It also provides a balance between the role

 $435\ 00:25:58.680 \longrightarrow 00:26:02.382$ of the participant and the role of the observer.

 $436\ 00:26:02.382 \longrightarrow 00:26:05.190$ So oftentimes we find in ethnography,

437 00:26:05.190 --> 00:26:09.610 someone playing more of a role of one versus the other

 $438\ 00:26:10.590 \longrightarrow 00:26:12.930$ and having an imbalance.

 $439\ 00:26:12.930 \longrightarrow 00:26:15.480$ And the benefit of ethnographic research,

440 00:26:15.480 --> 00:26:17.520 which is to combine perspectives

441 00:26:17.520 \rightarrow 00:26:20.973 that of the insider or emic perspective

442 00:26:20.973 --> 00:26:21.806 and that of the outsider, or etic perspective.

443 00:26:24.824 --> 00:26:26.940 In doing so, the advantage to RAPICE

444 00:26:26.940 $\rightarrow 00:26:30.202$ is that it empowers study participants

445 00:26:30.202 --> 00:26:35.202 this particularly valued for underrepresented groups.

446 00:26:35.678 --> 00:26:40.050 It is now assisting in moving the field

447 00:26:40.050 --> 00:26:44.460 of implementation science to addressing health equity

 $448\ 00:26:44.460 \longrightarrow 00:26:47.490$ in a way that it wasn't able to before

449 $00{:}26{:}47.490 \dashrightarrow 00{:}26{:}52.490$ because those who are the survivors of disparities are,

 $450\ 00:26:54.900 \longrightarrow 00:26:58.050$ have equal weight, carry equal representation

 $451\ 00:26:58.050$ --> 00:27:01.500 in the process of data collection and analysis.

 $452\ 00{:}27{:}01.500$ --> $00{:}27{:}03.870$ We now have two versions of RAPICE.

 $453\ 00{:}27{:}03.870$ --> $00{:}27{:}07.833$ One for clinical settings and one for community settings.

454 00:27:08.760 --> 00:27:13.380 The process of doing it begins with a participant observer

 $455\ 00{:}27{:}13.380 \dashrightarrow 00{:}27{:}17.430$ or observers who conducted formal interviews,

456 00:27:17.430 $-\!>$ 00:27:20.770 do site visits and clinics or communities,

 $457\ 00:27:20.770 \longrightarrow 00:27:25.350$ and they may interact with study participants,

458 00:27:25.350 $\rightarrow 00:27:29.250$ attend meetings, observe clinical procedures,

 $459\ 00:27:29.250 \longrightarrow 00:27:32.400$ and collect data through informal

460 00:27:32.400 --> 00:27:35.583 and semi-structured interview with participants.

 $461\ 00:27:36.941 \longrightarrow 00:27:39.900$ They record that data through field notes,

462 00:27:39.900 --> 00:27:44.900 through logs of data collection activities, field jottings,

463 00:27:45.612 --> 00:27:50.550 and they can digitally record semi-structured interviews

 $464\ 00:27:50.550 \longrightarrow 00:27:52.113$ for later transcription.

 $465\ 00:27:53.370 \longrightarrow 00:27:55.710$ This information is then presented

466 00:27:55.710 --> 00:27:59.070 to the mixed method consultant who reviews it

467 00:27:59.070 --> 00:28:01.710 and queries the participant observers

468 00:28:01.710 --> 00:28:04.560 to gain a better insight into the data

469 00:28:04.560 --> 00:28:06.540 and its context.

 $470\ 00:28:06.540 \longrightarrow 00:28:08.970$ It may also enable the consultant

471 00:28:08.970 --> 00:28:11.850 to ask additional questions that the observer

472 00:28:11.850 --> 00:28:14.970 hadn't thought to ask, for example,

473 00:28:14.970 --> 00:28:17.790 and in an iterative fashion,

 $474\ 00:28:17.790 \longrightarrow 00:28:19.893$ enable further data collection.

475 00:28:21.224 --> 00:28:23.800 In the next phase, depending upon the context,

 $476\ 00{:}28{:}23.800$ --> $00{:}28{:}28.750$ what resources you have available to mixing the methods.

477 00:28:30.510 --> 00:28:32.940 The qualitative data can be subjected

 $478\ 00:28:32.940 \longrightarrow 00:28:36.639$ to two phases of analysis.

 $479\ 00:28:36.639 \longrightarrow 00:28:39.120$ The first being immersion crystallization,

480 00:28:39.120 --> 00:28:44.120 where you get a holistic representation of the setting,

 $481\ 00:28:44.250 \longrightarrow 00:28:47.430$ the activities, the phenomenon of interest,

482 00:28:47.430 --> 00:28:51.330 followed by a more focused the
matic content analysis

483 00:28:51.330 --> 00:28:55.800 and perhaps a template analysis if you're doing comparisons

 $484\ 00{:}28{:}55{.}800$ --> $00{:}28{:}59{.}730$ across settings or across groups of individuals.

485 00:28:59.730 --> 00:29:02.700 The participant observer develops

486 $00:29:02.700 \rightarrow 00:29:05.790$ a preliminary interpretation of the meaning

487 00:29:05.790 --> 00:29:07.753 and significance of that data

488 00:29:07.753 --> 00:29:12.753 organized in terms of a set of a priority themes 489 00:29:13.020 --> 00:29:16.230 based on the interview guide or emergent the mes

490 00:29:16.230 --> 00:29:18.570 that come from the data collected

491 00:29:18.570 --> 00:29:22.110 and a description of their inner relationships. 492 00:29:22.110 --> 00:29:26.040 The mixed method consultant does something very similar.

493 00:29:26.040 --> 00:29:27.690 And then the two,

494 00:29:27.690 --> 00:29:30.180 the participant observers and the consultant 495 00:29:30.180 --> 00:29:34.830 identified points of convergence and divergence,

496 00:29:34.830 --> 00:29:39.630 and then go through a process of reaching consensus

497 00:29:39.630 --> 00:29:42.300 in much the same way that a team approach 498 00:29:42.300 --> 00:29:45.570 to qualitative data analysis occurs.

499 00:29:45.570 --> 00:29:49.920 If it's not achieved, follow up interviews

 $500\ 00:29:49.920 \longrightarrow 00:29:53.160$ or returns to the field site may be necessitated

 $501 \ 00:29:53.160 \longrightarrow 00:29:55.260$ to collect additional data.

 $502~00{:}29{:}55{.}260$ --> $00{:}29{:}59{.}856$ If it is achieved, the consultant may recommend

503 00:29:59.856 --> 00:30:03.810 identification of disconfirming cases

 $504\ 00:30:03.810 \longrightarrow 00:30:07.773$ in which additional data collection occurs.

505 00:30:08.670 --> 00:30:12.720 In the end, the interpretation of the study findings

506 00:30:12.720 --> 00:30:16.590 is presented to the participants to confirm validity

507 00:30:16.590 --> 00:30:20.220 and comprehensiveness equivalent to member checking

 $508\ 00:30:20.220 \longrightarrow 00:30:22.143$ in qualitative data analysis.

509 00:30:23.580 --> 00:30:27.000 Analyzing the qualitative data using RAPICE

 $510\ 00:30:27.000 \rightarrow 00:30:30.817$ is then integrated with quantitative data

511 $00:30:30.817 \rightarrow 00:30:33.300$ to provide a comprehensive understanding

512 00:30:33.300 --> 00:30:35.973 of implementation process and outcomes.

 $513\ 00:30:36.960 \longrightarrow 00:30:40.350$ That way we can use that information

514 00:30:40.350 --> 00:30:41.910 as I will explain later,

515 00:30:41.910 --> 00:30:46.470 to improve the likelihood of successful outcomes.

516 00:30:46.470 $\operatorname{-->}$ 00:30:51.470 So in two studies where we applied the RAPICE approach,

 $517\ 00:30:52.260 \longrightarrow 00:30:55.770$ we used both the clinical ethnography

 $518\ 00:30:55.770 \longrightarrow 00:30:58.773$ and the community ethnography version.

 $519\ 00:30:59.657 \rightarrow 00:31:02.070$ The first study used the clinical ethnography

 $520\ 00:31:02.070 \longrightarrow 00:31:05.848$ to look at interventions

521 00:31:05.848 --> 00:31:08.530 targeting post-traumatic stress disorder comorbidity

 $522\ 00:31:09.390 \longrightarrow 00:31:11.867$ in trauma care settings.

 $523\ 00:31:11.867 \rightarrow 00:31:16.770$ And this gives you sort of a justification

 $524\ 00:31:16.770 \longrightarrow 00:31:19.110$ or the rationale for why we did this study

525 00:31:19.110 --> 00:31:23.010 because each year between the main and a half

 $526\ 00:31:23.010 \longrightarrow 00:31:25.410$ and two and a half million people

527 00:31:25.410 --> 00:31:30.410 require inpatient hospitalizations due to injuries,

 $528\ 00:31:30.510 \longrightarrow 00:31:32.160$ but they also carry with them

529 00:31:32.160 --> 00:31:36.840 frequently multiple comorbidities including PTSD,

530 $00:31:36.840 \dashrightarrow 00:31:40.050$ alcohol and drug abuse problems, depression,

531 00:31:40.050 --> 00:31:41.730 chronic medical conditions

 $532\ 00:31:41.730 \longrightarrow 00:31:45.750$ that are endemic to this population.

533 00:31:45.750 --> 00:31:48.720 So the aim of this study was to enhance

534 00:31:48.720 --> 00:31:51.750 the implementation of evidence-based screening

535 00:31:51.750 --> 00:31:55.620 and interventions for PTSD and comorbidity

536 00:31:55.620 --> 00:31:59.466 in 25 level 1 trauma centers nationwide.

537 00:31:59.466 --> 00:32:04.380 We also wanted to impact clinical effectiveness

 $538\ 00:32:04.380 \longrightarrow 00:32:08.146$ of patient outcomes while also targeting

539 00:32:08.146 --> 00:32:12.144 national trauma center implementation policies

540 00:32:12.144 --> 00:32:15.333 recommended by the American College of Surgeons.

541 00:32:16.230 --> 00:32:20.220 The focus of this study was on implementation outcomes

 $542\ 00:32:20.220 \longrightarrow 00:32:23.100$ using the RE-AIM framework.

543 00:32:23.100 --> 00:32:26.450 Reach, effectiveness, adoption,

544 00:32:26.450 --> 00:32:28.380 implementation and maintenance.

545 00:32:28.380 --> 00:32:32.730 And so what we did was collect both qualitative data

546 00:32:32.730 --> 00:32:36.644 using the RAPICE methodology of having clinicians

547 00:32:36.644 --> 00:32:41.644 act as participant observers and work with myself

548 00:32:43.140 --> 00:32:47.700 to interpret or analyze the data that they collected,

 $549\ 00:32:47.700 \longrightarrow 00:32:49.890$ as well as quantitative data

550 00:32:49.890 --> 00:32:54.660 through the National Trauma Center Behavioral health surveys

 $551\ 00:32:54.660 \longrightarrow 00:32:58.346$ to identify or create a matrix

552 00:32:58.346 --> 00:33:02.205 of American College of Surgeons policy

 $553\ 00:33:02.205 \longrightarrow 00:33:04.233$ and its implementation,

554 00:33:05.370 $\rightarrow 00:33:08.640$ so that the different reach categories

555 00:33:08.640 --> 00:33:12.993 were assessed using both quantitative and qualitative data.

556 00:33:13.948 --> 00:33:18.570 At the same time, we were also using the qualitative data

557 00:33:18.570 \rightarrow 00:33:21.464 that we collected through RAPICE

 $558\ 00:33:21.464 \rightarrow 00:33:26.464$ to create categories of implementation quality.

 $559\ 00:33:26.623 \longrightarrow 00:33:31.020$ So the qualitative data became quantified

 $560\ 00:33:31.020 \longrightarrow 00:33:34.350$ in the assigned scores based on dimensions

561 00:33:34.350 --> 00:33:39.176 of the intervention itself, the leadership engagement,

 $562\ 00:33:39.176 \longrightarrow 00:33:43.830$ the adherence to regulatory standards.

563 00:33:43.830 --> 00:33:47.550 So, we had four categories of implementation quality.

564 00:33:47.550 --> 00:33:50.970 Excellent, good, fair and poor.

 $565\ 00:33:50.970 \longrightarrow 00:33:54.564$ When we combined the good

 $566\ 00:33:54.564 \rightarrow 00:33:59.564$ and excellent forms of implementation,

567 00:34:00.997 $\rightarrow 00:34:05.997$ what we found is essentially no difference

 $568\ 00:34:06.684 \longrightarrow 00:34:11.684$ in the scores that were assigned

 $569\ 00:34:12.360 \longrightarrow 00:34:14.860$ to individuals post-treatment

570 00:34:16.500 --> 00:34:21.500 indicating very poor clinical outcomes in conditions

571 00:34:21.570 --> 00:34:25.503 where the implementation of the guidelines was,

572 00:34:27.975 --> 00:34:32.880 actually, it's the exact opposite, we got great outcomes

573 00:34:32.880 --> 00:34:35.550 under good and excellent implementation,

574 00:34:35.550 --> 00:34:38.521 very poor outcomes as indicated by the disparity

 $575\ 00:34:38.521 \longrightarrow 00:34:41.124$ between the two sets of measures

 $576\ 00{:}34{:}41.124$ --> $00{:}34{:}44.823$ under conditions of fair and poor implementation.

577 00:34:46.579 \rightarrow 00:34:51.120 The finding was that the clinical outcomes

 $578\ 00:34:51.120 \longrightarrow 00:34:54.600$ associated with implementing these guidelines

 $579~00{:}34{:}54.600 \dashrightarrow 00{:}34{:}59.600$ for screening and treating PTSD and comorbid conditions

580 00:34:59.970 --> 00:35:01.740 produced much better outcomes

581 00:35:01.740 --> 00:35:05.730 when their implementation quality was good or excellent

 $582\ 00:35:05.730 \longrightarrow 00:35:08.223$ than when it was fair or poor.

583 00:35:09.900 --> 00:35:14.900 So finally the third study is that had to do a, as I said,

584 00:35:15.390 --> 00:35:18.490 with the impact of the COVID pandemic on child

585 00:35:19.411 --> 00:35:22.770 and adolescent mental health and practice implementation.

586 00:35:22.770 --> 00:35:26.075 As you know, mental health issues

587 00:35:26.075 --> 00:35:29.578 have become of increasing concern

588 00:35:29.578 --> 00:35:32.490 in child and adolescent populations

 $589\ 00:35:32.490 \longrightarrow 00:35:34.590$ even before the pandemic.

 $590\ 00:35:34.590$ --> 00:35:39.590 When the pandemic occurred, those concerns skyrocketed.

591 00:35:39.683 --> 00:35:44.683 The increase was very dramatic, so that there were reports

 $592\ 00:35:46.020 \longrightarrow 00:35:50.100$ that up to half of the population of children,

593 00:35:50.100 $\rightarrow 00:35:52.390$ adolescents living in the United States

 $594~00{:}35{:}53.250 \dashrightarrow 00{:}35{:}58.250$ were experiencing symptoms of severe depression and anxiety.

595 00:35:59.880 --> 00:36:01.740 Visits to emergency room

 $596\ 00:36:01.740 \longrightarrow 00:36:05.220$ for mental health crises skyrocketed.

597 00:36:05.220 --> 00:36:10.220 Yet the understanding of how to respond to these issues

598 00:36:12.499 --> 00:36:15.892 by mental health service systems was very limited.

 $599\ 00:36:15.892 \longrightarrow 00:36:17.547$ So the intention of this study

60000:36:17.547 --> 00:36:21.090 was to look at the impact of the pandemic

 $601\ 00{:}36{:}21.090$ --> $00{:}36{:}25.680$ on implementation of policy and practices at the state level

 $602\ 00{:}36{:}25{.}680$ --> $00{:}36{:}28{.}950$ for preventing and treating mental health problems

 $603\ 00:36:28.950 \longrightarrow 00:36:30.630$ in this population,

 $604~00{:}36{:}30{.}630$ --> $00{:}36{:}34{.}380$ and then look at the current need and demand for services

 $605\ 00:36:34.380 \longrightarrow 00:36:37.440$ as well as the capacity to deliver them.

 $606\ 00:36:37.440 \longrightarrow 00:36:40.380$ And how state mental health authorities

 $607\ 00:36:40.380 \longrightarrow 00:36:44.250$ were addressing these needs and demand

 $608\ 00:36:44.250 \longrightarrow 00:36:47.006$ with a particular focus on telehealth

 $609\ 00:36:47.006 \longrightarrow 00:36:49.863$ and its use to deliver services.

61000:36:51.030 --> 00:36:55.440 So while the last study relied on the RE-AIM framework

 $611\ 00:36:55.440 \longrightarrow 00:36:58.500$ to evaluate implementation outcomes,

 $612\ 00:36:58.500 \longrightarrow 00:37:02.430$ this study utilized the consolidated framework

613 00:37:02.430 --> 00:37:07.290 for implementation research to look at the process

614 00:37:07.290 --> 00:37:11.403 of implementing evidence-based policies and practice,

615 00:37:12.660 --> 00:37:16.860 We began with conducting semi-structured interviews

 $616\ 00:37:16.860 \longrightarrow 00:37:20.010$ with 29 state mental health authorities

 $617\ 00:37:20.010$ --> 00:37:24.840 and representatives from 21 randomly selected states,

61800:37:24.840 --> 00:37:29.820 and then using a subgroup of those as participant observers

 $619\ 00:37:29.820 \longrightarrow 00:37:32.194$ in their respective states.

 $620\ 00:37:32.194 \longrightarrow 00:37:34.110$ So they were not only involved

 $621\ 00:37:34.110 \longrightarrow 00:37:36.390$ in collecting data in their states,

 $622\ 00{:}37{:}36{.}390$ --> $00{:}37{:}41{.}390$ but also assisting us in the analysis of that state data.

 $623\ 00{:}37{:}42.630$ --> $00{:}37{:}47.220$ So, this is a community ethnography approach.

62400:37:47.220 --> 00:37:52.220 We also stratified the data according to two criteria,

625 00:37:54.360 --> 00:37:56.790 level of unmet need for services

 $626\ 00:37:56.790 \longrightarrow 00:38:01.790$ as described by a study that was done

 $627\ 00:38:02.369 \longrightarrow 00:38:06.210$ two years prior to this study

 $628\ 00:38:06.210 \longrightarrow 00:38:08.850$ and the positivity rate for the coronavirus

 $629\ 00:38:08.850 \longrightarrow 00:38:11.010$ at the time that we conducted this study,

 $630\ 00:38:11.010 \longrightarrow 00:38:14.553$ which was in the fall of 2020.

631 00:38:16.050 --> 00:38:21.050 What we found, and part of this data involved,

63200:38:22.800 --> 00:38:27.800 you know, looking at features of the qualitative data

633 00:38:29.010 --> 00:38:34.010 and comparing them across the categories of states

63400:38:34.500 --> 00:38:38.340 based on unmet need for mental health services

 $635\ 00:38:38.340 \longrightarrow 00:38:40.983$ as well as coronavirus positivity.

63600:38:41.820 --> 00:38:46.820 And some of it was used to provide in-depth understanding

 $637\ 00:38:47.070 \longrightarrow 00:38:49.533$ of the process of implementation.

63800:38:50.795 --> 00:38:55.607 So what you see here is, even though we had 21 states,

 $639\ 00:38:56.760 \longrightarrow 00:38:59.880$ the increase in demand for services

640 00:38:59.880 --> 00:39:02.760 was high in all of the states

641 00:39:02.760 --> 00:39:07.760 that fell in the high positivity, high level of unmet need,

 $642\ 00:39:08.460 \longrightarrow 00:39:13.230$ whereas the lowest rate of increase in demand $643\ 00:39:13.230 \longrightarrow 00:39:17.070$ occurred in states with low levels of positivity $644\ 00:39:17.070 \longrightarrow 00:39:20.370$ and low levels of unmet need,

645 00:39:20.370 --> 00:39:23.760 which is pretty much what you would expect. 646 00:39:23.760 --> 00:39:27.630 In terms of capacity, we found that in states 647 00:39:27.630 --> 00:39:32.481 with high unmet need, the decrease in capacity

648 00:39:32.481 --> 00:39:36.290 occurred much higher in those states

 $649\ 00:39:36.290 \longrightarrow 00:39:40.350$ than in states with low unmet need.

650 00:39:40.350 --> 00:39:45.000 So we found a disparity in the supply and demand

65100:39:45.000 --> 00:39:48.810 for mental health services through this study 65200:39:48.810 --> 00:39:53.340 in that states with high positivity and high unmet need

 $653\ 00:39:53.340 \longrightarrow 00:39:55.590$ had the highest increase in demand

 $654\ 00:39:55.590 \longrightarrow 00:39:57.810$ for mental health services,

655 00:39:57.810 --> 00:40:02.193 but the lowest capacity for delivering those services.

 $656\ 00:40:03.330 \longrightarrow 00:40:07.320$ When we look at the barriers and facilitators

 $657\ 00:40:07.320 \longrightarrow 00:40:10.680$ to implementation using the CFIR domains,

658 00:40:10.680 --> 00:40:13.890 we found issues related to telehealth

 $659\ 00:40:13.890 \longrightarrow 00:40:16.110$ that presented challenges

 $660\ 00:40:16.110 \longrightarrow 00:40:18.390$ to the state mental health authorities,

 $661\ 00:40:18.390 \longrightarrow 00:40:21.818$ such as limited access to broadband or internet

 $662\ 00:40:21.818 \longrightarrow 00:40:24.870$ or the technology needed for telehealth,

663 00:40:24.870 --> 00:40:28.958 like laptop computers, reluctance to participate,

664 00:40:28.958 --> 00:40:32.730 especially among families because they were unfamiliar

 $665\ 00{:}40{:}32.730$ --> $00{:}40{:}36.602$ with the practice or not comfortable using the technology

666 00:40:36.602 --> 00:40:40.110 or preferred face-to-face interactions.

667 00:40:40.110 --> 00:40:44.250 At the same time, facilitators included Medicaid waivers

 $668\ 00:40:44.250 \longrightarrow 00:40:46.233$ to allow billing for services,

 $669\ 00:40:47.160 \longrightarrow 00:40:49.260$ provider training for its use,

 $670\ 00:40:49.260 \longrightarrow 00:40:52.320$ information for families on how to use it

 $671\ 00:40:52.320 \longrightarrow 00:40:56.400$ and grant funding to provide client access,

67200:40:56.400 --> 00:41:00.163 either through expanding access to the internet

 $673\ 00:41:01.381 \longrightarrow 00:41:04.293$ or access to the technology.

 $674\ 00:41:05.340 \longrightarrow 00:41:09.330$ We also found that many providers

 $675 \ 00:41:09.330 \longrightarrow 00:41:13.230$ intended to continue using these telehealth

 $676\ 00:41:13.230 \longrightarrow 00:41:17.235$ or virtual mental health services

677 00:41:17.235 --> 00:41:21.480 because it resulted in fewer appointment cancellations

678 00:41:21.480 --> 00:41:24.480 or no-shows, greater family engagement

 $679\ 00:41:24.480 \longrightarrow 00:41:28.560$ and reduce time traveling to provide services.

680 00:41:28.560 --> 00:41:31.980 So I'm just gonna end with a description

 $681\ 00:41:31.980 \longrightarrow 00:41:35.463$ of some of the new things that we're doing.

682 00:41:37.350 --> 00:41:42.150 One of the potential for using RAPICE

 $683\ 00:41:42.150 \longrightarrow 00:41:45.060$ and other kinds of mixed methods

68400:41:45.060 --> 00:41:50.060 is not just documenting implementation process and outcomes,

68500:41:50.700 --> 00:41:55.700 but actually facilitating implementation as a strategy,

 $686\ 00:41:55.950 \longrightarrow 00:41:58.170$ much like any of the other strategies

 $687~00{:}41{:}58.170$ --> $00{:}42{:}03.170$ that we employ to ensure successful implementation.

 $688\ 00:42:03.960 \longrightarrow 00:42:06.210$ So a formative evaluation, you know,

 $689\ 00:42:06.210 \longrightarrow 00:42:08.250$ judges the worth of a program

690 00:42:08.250 --> 00:42:11.070 while the program is in progress,

691 00:42:11.070 --> 00:42:13.761 it can be conducted at any phase of a study

 $692\ 00:42:13.761 \longrightarrow 00:42:18.210$ and it focuses on the process itself,

 $693\ 00:42:18.210 \longrightarrow 00:42:22.382$ but it can influence the outcomes

 $694\ 00:42:22.382 \longrightarrow 00:42:26.310$ if there's feedback from the process

 $695\ 00:42:26.310 \longrightarrow 00:42:29.250$ of conducting the formative evaluation.

696 00:42:29.250 --> 00:42:33.960 So its main purpose is to detect deficiencies

 $697\ 00:42:33.960 \longrightarrow 00:42:36.450$ in implementation as soon as possible,

698 00:42:36.450 --> 00:42:41.450 so that adjustments can be made to ensure better outcomes.

699 00:42:41.550 --> 00:42:43.386 And it's, you know,

700 $00:42:43.386 \dashrightarrow 00:42:45.480$ the kind of preliminary research that you do

 $701\ 00:42:45.480 \longrightarrow 00:42:47.100$ is also considered formative,

 $702\ 00:42:47.100 \longrightarrow 00:42:50.880$ but this is something completely different.

 $703\ 00:42:50.880 \longrightarrow 00:42:53.460$ This is formative evaluation.

704 00:42:53.460 --> 00:42:56.340 So this kind of evaluation can be done

 $705\ 00:42:56.340 \longrightarrow 00:42:58.800$ either by members of the research team

 $706\ 00:42:58.800 \rightarrow 00:43:01.080$ who have knowledge about the intervention

 $707\ 00:43:01.080 \longrightarrow 00:43:03.030$ and performance expectation

 $708\ 00:43:03.030 \longrightarrow 00:43:06.420$ or can be done by independent observer

 $709\ 00:43:06.420 \longrightarrow 00:43:10.650$ who provides so-called objective assessments.

710 00:43:10.650 $\rightarrow 00:43:13.440$ But perhaps the best approach like RAPICE

711 $00:43:13.440 \rightarrow 00:43:18.440$ is to include both in the process of evaluation.

712 00:43:18.810 --> 00:43:22.380 This diagram gives you an idea of how that would work.

713 00:43:22.380 --> 00:43:25.170 So in a randomized controlled trial

 $714\ 00:43:25.170 \longrightarrow 00:43:28.470$ where you're evaluating a intervention

 $715\ 00:43:28.470 \longrightarrow 00:43:30.240$ and it's implementation.

716 00:43:30.240 --> 00:43:33.120 With each formative evaluation,

717 00:43:33.120 --> 00:43:37.980 you can influence and potentially improve the outcomes

 $718\ 00:43:37.980 \longrightarrow 00:43:40.410$ at the next data collection point,

 $719\ 00:43:40.410 \longrightarrow 00:43:44.160$ so that the outcomes are optimal,

 $720\ 00{:}43{:}44.160$ --> $00{:}43{:}47.433$ optimally constructed by the time the trial ends.

721 00:43:49.984 --> 00:43:51.090 So there are a number of methods

 $722\ 00:43:51.090 \longrightarrow 00:43:53.580$ that are out there for doing this.

723 00:43:53.580 --> 00:43:57.000 It's semi-structured interviews with participants,

724 00:43:57.000 --> 00:43:59.430 investigators, service providers,

725 $00:43:59.430 \rightarrow 00:44:02.557$ or ethnographic field observation.

 $726\ 00{:}44{:}02.557$ --> $00{:}44{:}07.557$ But we're now working on using the RAPICE technique.

 $727\ 00{:}44{:}08.550\ -{-}>\ 00{:}44{:}12.940$ We're planning to do that in three major projects

 $728\ 00:44:13.819 \longrightarrow 00:44:15.030$ that we've got underway now.

729 00:44:15.030 --> 00:44:19.830 The first being implementation projects on prevention,

 $730\ 00:44:19.830 \longrightarrow 00:44:21.480$ treatment, harm reduction

731 00:44:21.480 --> 00:44:24.183 and recovery of opioid use disorders.

 $732\ 00:44:25.321 \longrightarrow 00:44:30.150$ A research center that's focused on developing

 $733\ 00:44:30.150 \rightarrow 00:44:32.790$ and implementing a multi-level intervention

734 00:44:32.790 --> 00:44:37.790 to increase vaccination rates in underresourced communities

735 00:44:40.161 --> 00:44:41.640 for HPV.

 $736\ 00:44:41.640 \longrightarrow 00:44:43.080$ And then the third,

737 00:44:43.080 --> 00:44:48.080 a stepped care approach to delivering mental health services

738 00:44:48.420 --> 00:44:53.280 in the aftermath of climate related natural disasters,

 $739\ 00:44:53.280 \longrightarrow 00:44:55.393$ extreme weather events,

740 00:44:55.393 --> 00:44:59.880 focusing on wild
fires in California and Australia

 $741\ 00:44:59.880 \longrightarrow 00:45:03.870$ and typhoons in small island developing states

742 00:45:03.870 --> 00:45:05.730 in the Pacific.

743 00:45:05.730 $\rightarrow 00:45:09.060$ So, that's pretty much where we are.

 $744\ 00:45:09.060 \longrightarrow 00:45:12.921$ I hope it gives you some ideas of the potentials

745 00:45:12.921 --> 00:45:17.921 for not only using quantitative and qualitative methods,

746 00:45:18.480 --> 00:45:22.890 but being a little creative in their use

747 00:45:22.890 --> 00:45:24.780 to address important problems

748 00:45:24.780 $\rightarrow 00:45:26.760$ related to implementation for use.

749 00:45:26.760 --> 00:45:28.527 <v ->Ah, thank you so much.</v>

750 00:45:32.393 --> 00:45:36.377 For people, will we open it up for questions on the laptop?

751 00:45:44.220 --> 00:45:45.570 So, we'll open it up for questions

 $752\ 00{:}45{:}45{.}570$ --> $00{:}45{:}50{.}570$ and Mona hopefully we can hear it or whoever has questions.

753 00:45:52.590 --> 00:45:53.790 <v ->There's nobody online.</v>

754 00:45:56.750 --> 00:45:58.861 <v Participant>I have a question.</v>

755 00:45:58.861 --> 00:46:00.541 So hopefully every
body online can hear the question.

756 00:46:00.541 --> 00:46:01.941 So, thank you so much.

757 00:46:01.941 --> 00:46:03.762 I really enjoyed hearing about the RAPICE technique.

 $758\ 00:46:03.762 \longrightarrow 00:46:05.301$ It's really eyeopening.

759 00:46:05.301 --> 00:46:07.773 It reminds me a little bit of this idea

760 00:46:07.773 --> 00:46:09.703 of community based participatory research

761 00:46:09.703 --> 00:46:12.240 and I wonder to what degree that idea comes in,

 $762\ 00:46:12.240 \longrightarrow 00:46:14.370$ in other words, the participant observers,

763 00:46:14.370 --> 00:46:17.160 to what degree do they set the purpose

764 00:46:17.160 $\rightarrow 00:46:20.610$ for the research question versus just working

 $765\ 00:46:20.610 \longrightarrow 00:46:23.370$ under the forgetting now the name,

766 00:46:23.370 --> 00:46:26.400 the mixed methods consultant to kind of carry out

767 00:46:26.400 $\rightarrow 00:46:29.820$ the designing of the interview guides

768 00:46:29.820 --> 00:46:31.053 or analysis, et cetera.

769 00:46:32.372 --> 00:46:36.300 <v ->So the community based version of RAPICE</v>

770 00:46:36.300 --> 00:46:39.690 is much more explicit in that it does occur

 $771\ 00:46:39.690 \longrightarrow 00:46:43.920$ in the clinical ethnography as well.

772 00:46:43.920 --> 00:46:48.920 But in both instances we've engaged community members

773 00:46:49.680 --> 00:46:53.850 or clinicians in identifying the questions to be asked,

774 00:46:53.850 --> 00:46:55.914 the issues to be addressed

 $775\ 00:46:55.914 \longrightarrow 00:46:59.640$ and participating in the analysis.

 $776\ 00:46:59.640 \longrightarrow 00:47:03.540$ So they, the term co-creation

 $777\ 00:47:03.540 \longrightarrow 00:47:06.243$ has become very popular these days.

778 00:47:07.530 --> 00:47:11.370 We have in a community setting adopted what's called

779 00:47:11.370 --> 00:47:15.151 the community partner participatory research approach,

 $780\ 00:47:15.151 -> 00:47:18.900$ so that it's not just based in the community,

781 00:47:18.900 --> 00:47:23.900 but that the community members are equal partners.

 $782\ 00{:}47{:}24.150$ --> $00{:}47{:}28.460$ And we've used this not just in implementation studies,

783 00:47:28.460 --> 00:47:33.460 recently we used it in New Orleans and South Louisiana

784 00:47:34.830 --> 00:47:38.160 to look at how community-based organizations

785 00:47:38.160 --> 00:47:42.720 in low income neighborhoods like the Lower Ninth Ward

786 $00{:}47{:}42.720 \dashrightarrow 00{:}47{:}46.017$ were and preparing for hurricane season

787 00:47:46.017 --> 00:47:47.317 during the COVID pandemic,

788 00:47:48.560 --> 00:47:52.730 how COVID had impacted their ability to prepare for

789 $00{:}47{:}54{.}330 \dashrightarrow 00{:}47{:}58.615$ and respond to an increased frequency

 $790\ 00:47:58.615 \longrightarrow 00:48:00.270$ of more severe hurricanes.

791 00:48:00.270 --> 00:48:04.830 That involved having a community advisory board

792 00:48:04.830 --> 00:48:09.030 from the community, help us design the interviews,

793 00:48:09.030 --> 00:48:13.230 identify people to interview,

794 00:48:13.230 --> 00:48:16.650 and then participate in the analysis of the transcripts

 $795\ 00:48:16.650 \longrightarrow 00:48:17.750$ from those interviews.

796 00:48:19.772 --> 00:48:24.270 You know, as I said, one of the things

797 00:48:24.270 --> 00:48:27.570 that we see as a real value to RAPICE

 $798\ 00:48:27.570 \longrightarrow 00:48:30.153$ is that it empowers communities.

799 00:48:31.050 --> 00:48:34.500 Rather than simply being passive participants,

80000:48:34.500 --> 00:48:36.873 they're actively engaged in the process.

801 00:48:38.430 --> 00:48:41.250 <v ->I'm curious to learn a little more in RAPICE,</v>

 $802\ 00{:}48{:}41.250$ --> $00{:}48{:}46.250$ how are you following the quality of field observations

80300:48:48.450 --> 00:48:53.450 and field notes and or, you know, from both ends,

804 00:48:53.970 --> 00:48:56.130 from the mixed method consultant

80500:48:56.130 --> 00:48:57.960 and also the participant observers

 $806\ 00:48:57.960 \longrightarrow 00:49:00.960$ that might be newly trained in ethnography

 $807\ 00{:}49{:}00{.}960$ --> $00{:}49{:}03{.}360$ or like conducting interviews and writing field notes

 $808 \ 00{:}49{:}03.360 \dashrightarrow 00{:}49{:}04.665$ and things like that.

 $809\ 00:49:04.665 \longrightarrow 00:49:06.617$ What is of the process?

810 00:49:06.617 --> 00:49:10.827 <v ->So the iterative nature of that is that we,</v>

811 00:49:13.530 --> 00:49:17.820 on a regular schedule review field notes

 $812\ 00:49:17.820 \longrightarrow 00:49:21.270$ and any data that's collected.

 $813\ 00:49:21.270 \longrightarrow 00:49:24.150$ I then meet with the participant observers

814 00:49:24.150 --> 00:49:27.970 or the consultant meets with the participant observers

 $815\;00{:}49{:}31{.}131 {\:-\!\!\!\!-\!\!\!>} 00{:}49{:}34{.}560$ and queries them and makes recommendations at that point

816 00:49:34.560 --> 00:49:36.540 about the kinds of information.

817 00:49:36.540 --> 00:49:39.630 I mean, we begin, actually, I should say

 $818\ 00:49:39.630 \longrightarrow 00:49:41.760$ begin actually by training them

 $819\ 00:49:41.760 \longrightarrow 00:49:45.030$ on how to do participant observation.

 $820\ 00{:}49{:}45.030 \dashrightarrow 00{:}49{:}49.363$ So the who, what, when, where, why observation,

82100:49:50.490 --> 00:49:55.490 how to collect information, how to record it in field notes,

 $822\ 00:49:55.560 \longrightarrow 00:49:59.441$ what we expect to see in field notes,

 $823\ 00{:}49{:}59{.}441$ --> $00{:}50{:}03{.}063$ the different types of observation and reflection.

 $824\ 00:50:03.900 \longrightarrow 00:50:07.740$ And then we use the information,

 $825\ 00{:}50{:}07{.}740$ --> $00{:}50{:}11{.}410$ the analyst uses the information that is provided to them

 $826\ 00{:}50{:}12{.}360$ --> $00{:}50{:}15{.}790$ to ask additional questions to get a better understanding

827 00:50:16.998 --> 00:50:20.246 of what was observed or what was heard or seen.

828 00:50:20.246 --> 00:50:22.743 From the analyst standpoint,

 $829\ 00:50:24.150 \longrightarrow 00:50:27.515$ the check is, the member checking.

 $830\ 00{:}50{:}27.515$ --> $00{:}50{:}30.420$ So when we come up with a preliminary analysis,

 $831\ 00:50:30.420 \longrightarrow 00:50:34.140$ we present it to a group of clinicians

 $832\ 00:50:34.140 \longrightarrow 00:50:36.300$ who participated in this study,

 $833\ 00:50:36.300 \longrightarrow 00:50:38.223$ who were observed for example,

 $834\ 00:50:39.064 \longrightarrow 00:50:41.940$ or we presented to community members

 $835\ 00:50:41.940 \longrightarrow 00:50:46.663$ to get their reflections, to get their feedback.

 $836\ 00:50:46.663 -> 00:50:51.663$ So in a member check, what the analyst does

837 00:50:51.877 --> 00:50:56.877 is review through a member checking process essentially.

 $838\ 00:51:01.770 \longrightarrow 00:51:04.832$ Any questions from the ethernet?

839 00:51:04.832 --> 00:51:07.749 (Ashley chuckling)

840 00:51:09.031 --> 00:51:11.093 <v ->It's like class, just a lot of black boxes.</v>

841 00:51:13.404 --> 00:51:16.470 Okay, well, it's one o'clock so I'm mindful

 $842\ 00{:}51{:}16{.}470 \dashrightarrow 00{:}51{:}21{.}470$ that folks likely need to head off to their next thing.

843 00:51:22.943 --> 00:51:26.920 But please do let us know if you're not on

844 00:51:26.920 --> 00:51:31.920 any of our email lists or interested in learning more about

845 00:51:32.550 --> 00:51:35.730 our qualitative methods innovation program

846 00:51:35.730 --> 00:51:39.750 or just more about CMIPS, contact William Tootle.

847 00:51:39.750 --> 00:51:41.700 And yeah, you can join me one more time

848 00:51:43.696 --> 00:51:46.110 in thanking Prof. Palinkas for his wonderful talk.

849 00:51:46.110 --> 00:51:47.583 Yeah, so thank you, everyone.

 $850\;00{:}52{:}01{.}572 \dashrightarrow 00{:}52{:}06{.}150$ Thank you so much. I have so many questions. (chuckles)

851 00:52:06.150 --> 00:52:08.350 <v ->I guess that worked out okay</v>

 $852\ 00{:}52{:}08{.}350$ --> $00{:}52{:}09{.}870$ in spite of the technical challenges.

853 00:52:09.870 --> 00:52:11.130 <v Participant>No, I think it was great. Yeah.</v>

 $854\ 00:52:11.130 \longrightarrow 00:52:13.383 < v \longrightarrow I$ have to say that shared. </v>