

**THE
SKEPTIC
ZONE
PODCAST**

www.skepticzone.tv

1
00:00:22,260 --> 00:00:09,090
welcome to the skeptic zone the podcast

2
00:00:28,120 --> 00:00:25,179
hello and welcome to the skeptic zone

3
00:00:32,770 --> 00:00:28,130
episode number 419 for the 30th of

4
00:00:34,960 --> 00:00:32,780
October 2016 Richard Saunders here with

5
00:00:37,060 --> 00:00:34,970
you from Sydney Australia and I noticed

6
00:00:40,270 --> 00:00:37,070
just last night lots of people going out

7
00:00:42,490 --> 00:00:40,280
to Halloween parties there people

8
00:00:44,500 --> 00:00:42,500
decorating their yards with ghosts and

9
00:00:46,390 --> 00:00:44,510
cobwebs and things like that and I also

10
00:00:49,479 --> 00:00:46,400
notice that a lot of people seem to be

11
00:00:53,799 --> 00:00:49,489
up in arms here in Australia protesting

12
00:00:56,229 --> 00:00:53,809
that we some of us a lot of a lot of

13
00:00:58,150 --> 00:00:56,239

people celebrating Halloween or dressing

14

00:01:00,310 --> 00:00:58,160

up as ghosts and doing all this sort of

15

00:01:01,660 --> 00:01:00,320

thing and I'm sure they're protesting

16

00:01:03,999 --> 00:01:01,670

that while wearing their blue jeans

17

00:01:06,490 --> 00:01:04,009

listening to rock and roll just having

18

00:01:10,540 --> 00:01:06,500

seen a superhero movie with electric

19

00:01:12,460 --> 00:01:10,550

light bulbs I mean oh we can make the

20

00:01:15,100 --> 00:01:12,470

yeah the argument oh this is terrible

21

00:01:18,420 --> 00:01:15,110

this is an American cultural thing in

22

00:01:22,839 --> 00:01:18,430

Australia this is on Australian really

23

00:01:25,240 --> 00:01:22,849

while they're watching their TV sets I

24

00:01:26,800 --> 00:01:25,250

think it's a bit silly I like Halloween

25

00:01:29,469 --> 00:01:26,810

it's a lot of fun and the kids love it

26

00:01:32,589 --> 00:01:29,479

too so what the hell think the hell

27

00:01:35,320 --> 00:01:32,599

reference Halloween coming up on this

28

00:01:37,529 --> 00:01:35,330

week's show an important story what an

29

00:01:40,779 --> 00:01:37,539

important story from our friends at

30

00:01:43,600 --> 00:01:40,789

Australia's science channel Australia

31

00:01:44,980 --> 00:01:43,610

science TV Heidi Robertson the raw

32

00:01:47,529 --> 00:01:44,990

skeptic from the Northern Rivers

33

00:01:50,680 --> 00:01:47,539

vaccination supporters will interview

34

00:01:53,889 --> 00:01:50,690

dr. Paul Willis from Australia science

35

00:01:56,620 --> 00:01:53,899

channel as they've just put out a very

36

00:02:01,710 --> 00:01:56,630

very important story about people

37

00:02:06,999 --> 00:02:01,720

seeking alternative cures to cancer and

38

00:02:09,300 --> 00:02:07,009

the startling lack of good data on the

39

00:02:12,100 --> 00:02:09,310

subject how many people do it exactly

40

00:02:15,910 --> 00:02:12,110

what is their survival rate what is

41

00:02:17,619 --> 00:02:15,920

their mortality rate this is very

42

00:02:19,479 --> 00:02:17,629

important because some there is a

43

00:02:21,520 --> 00:02:19,489

percentage of cancer sufferers

44

00:02:24,339 --> 00:02:21,530

conventional treatment can absolutely

45

00:02:26,500 --> 00:02:24,349

help them but they've been convinced to

46

00:02:29,590 --> 00:02:26,510

give it up through misinformation or

47

00:02:31,300 --> 00:02:29,600

fear or whatever coming up at the top of

48

00:02:33,309 --> 00:02:31,310

the show Heidi Robertson interviews

49

00:02:36,760 --> 00:02:33,319

Paul Willis and we'll play the audio

50

00:02:40,600 --> 00:02:36,770

from the information video produced by

51
00:02:42,729 --> 00:02:40,610
the good people at Australia's science

52
00:02:45,010 --> 00:02:42,739
channel and then after the break it's

53
00:02:46,660 --> 00:02:45,020
more from Iran segev the president of

54
00:02:48,670 --> 00:02:46,670
Australian skeptics and of course his

55
00:02:53,050 --> 00:02:48,680
segment on the skeptics own grain of

56
00:02:56,470 --> 00:02:53,060
salt this week again direct from QED in

57
00:02:58,570 --> 00:02:56,480
Manchester question explore discover the

58
00:03:00,790 --> 00:02:58,580
convention that I've been to twice and

59
00:03:04,420 --> 00:03:00,800
it's a fantastic convention oh I know

60
00:03:06,490 --> 00:03:04,430
right as I speak these words the psych

61
00:03:09,520 --> 00:03:06,500
on is in Las Vegas I'm sorry I can't be

62
00:03:12,759 --> 00:03:09,530
there either anyway a run interviews

63
00:03:14,440 --> 00:03:12,769

Cara Santa Maria from the skeptics guide

64

00:03:17,440 --> 00:03:14,450

to the universe and the talk nerdy

65

00:03:21,460 --> 00:03:17,450

podcasts and many other things find out

66

00:03:25,089 --> 00:03:21,470

her story why she's at QED a bit more

67

00:03:27,699 --> 00:03:25,099

about Cara Santa Maria now here's a note

68

00:03:30,000 --> 00:03:27,709

from our friends at think ink at think

69

00:03:33,030 --> 00:03:30,010

inc dot or the people who bring you

70

00:03:35,620 --> 00:03:33,040

interesting and fascinating speakers

71

00:03:38,710 --> 00:03:35,630

thinking are proud to present an evening

72

00:03:41,710 --> 00:03:38,720

with dr. Lisa Randall here this

73

00:03:43,750 --> 00:03:41,720

world-renowned physicist discussed the

74

00:03:45,550 --> 00:03:43,760

hidden dimensions of our universe the

75

00:03:48,340 --> 00:03:45,560

balance between creative and critical

76
00:03:50,130 --> 00:03:48,350
thought in science and the importance of

77
00:03:54,039 --> 00:03:50,140
empowering girls and young woman's

78
00:03:56,110 --> 00:03:54,049
scientific interests and pursuits Amina

79
00:03:58,569 --> 00:03:56,120
England dr. Lisa Randall will be touring

80
00:04:01,270 --> 00:03:58,579
Australia Thursday the seventeenth and

81
00:04:03,580 --> 00:04:01,280
November in Brisbane Friday the 18th of

82
00:04:07,840 --> 00:04:03,590
our november in melbourne and saturday

83
00:04:10,449 --> 00:04:07,850
the 19th of november in sydney think inc

84
00:04:12,309 --> 00:04:10,459
org dot a you for more information and

85
00:04:14,860 --> 00:04:12,319
we'll have a bit more news about

86
00:04:18,400 --> 00:04:14,870
thinking a little bit later on in the

87
00:04:20,710 --> 00:04:18,410
show every summer more loosens the tie

88
00:04:23,350 --> 00:04:20,720

up at the end of the show but for now

89

00:04:25,180 --> 00:04:23,360

it's time for me to run downstairs put

90

00:04:29,140 --> 00:04:25,190

some sourdough bread in the toaster and

91

00:04:31,420 --> 00:04:29,150

indulge myself indulge myself who have

92

00:04:33,879 --> 00:04:31,430

something I rarely have that I love

93

00:04:36,700 --> 00:04:33,889

which is peanut butter and chocolate

94

00:04:40,240 --> 00:04:36,710

spread when I was a little kid here in

95

00:04:44,890 --> 00:04:40,250

Australia that was marketed under the

96

00:04:47,860 --> 00:04:44,900

brand name of Google

97

00:04:49,530 --> 00:04:47,870

the product name of kugel don't know

98

00:04:52,659 --> 00:04:49,540

which company put that out though that's

99

00:04:54,310 --> 00:04:52,669

what I knew it as it's pretty hard to

100

00:04:57,100 --> 00:04:54,320

find these days a few years ago they

101
00:05:00,010 --> 00:04:57,110
tried to bring it out again and they

102
00:05:02,350 --> 00:05:00,020
called it nuts about chocolate which I

103
00:05:04,029 --> 00:05:02,360
didn't think was a great name but it's

104
00:05:09,219 --> 00:05:04,039
pretty hard to find everybody loves

105
00:05:11,200 --> 00:05:09,229
Nutella you see and I can't stand it

106
00:05:13,659 --> 00:05:11,210
because I have a problem with hazelnuts

107
00:05:18,070 --> 00:05:13,669
so that doesn't get very far with me but

108
00:05:38,870 --> 00:05:18,080
peanuts and chocolate hmm well I do that

109
00:05:51,930 --> 00:05:42,840
it's the raw skeptic report with Heidi

110
00:05:54,840 --> 00:05:51,940
Robertson hello everyone Heidi Robertson

111
00:05:58,440 --> 00:05:54,850
here and today on the raw skeptic report

112
00:06:06,030 --> 00:05:58,450
I'll be chatting to dr. Paul Willis from

113
00:06:08,580 --> 00:06:06,040

Australia's Science Channel joining us

114

00:06:11,700 --> 00:06:08,590

now all the way from South Australia

115

00:06:13,560 --> 00:06:11,710

Adelaide we have dr. Paul Willis from

116

00:06:15,990 --> 00:06:13,570

Australia's science channel welcome back

117

00:06:18,030 --> 00:06:16,000

to the skeptic zone dr. always a

118

00:06:20,970 --> 00:06:18,040

pleasure to come back to you guys oh

119

00:06:25,200 --> 00:06:20,980

we've missed your weekly reports from

120

00:06:27,990 --> 00:06:25,210

our iOS yeah well we've now evolved

121

00:06:31,470 --> 00:06:28,000

those a week in science into brouhaha

122

00:06:34,980 --> 00:06:31,480

which is a one minute little pieces that

123

00:06:37,830 --> 00:06:34,990

we put out once or twice a week so check

124

00:06:39,810 --> 00:06:37,840

out brouhaha at Australia's Science

125

00:06:42,030 --> 00:06:39,820

Channel there we go for all the

126
00:06:44,580 --> 00:06:42,040
listeners who've been missing you every

127
00:06:47,250 --> 00:06:44,590
week there you go you can still find

128
00:06:48,930 --> 00:06:47,260
Paul online so Paul we've been hearing

129
00:06:51,630 --> 00:06:48,940
about this special investigation that

130
00:06:54,420 --> 00:06:51,640
you've been working on that would be of

131
00:06:56,280 --> 00:06:54,430
great interest I'm sure to the skeptical

132
00:06:58,140 --> 00:06:56,290
community and to the listeners of the

133
00:07:01,020 --> 00:06:58,150
skeptic zone can you tell us what it's

134
00:07:02,520 --> 00:07:01,030
all about and and in particular what

135
00:07:06,030 --> 00:07:02,530
prompted you to look into this

136
00:07:08,930 --> 00:07:06,040
particular topic yeah look let's start

137
00:07:12,570 --> 00:07:08,940
with what prompted me my partner is a

138
00:07:14,880 --> 00:07:12,580

breast cancer researcher and earlier

139

00:07:16,680 --> 00:07:14,890

this year she lamented that at one of

140

00:07:19,470 --> 00:07:16,690

the surgical meeting readings that she

141

00:07:21,720 --> 00:07:19,480

attends where they can get new material

142

00:07:25,500 --> 00:07:21,730

that one of the surgeons was lamenting

143

00:07:27,510 --> 00:07:25,510

that a woman had presented with an

144

00:07:30,900 --> 00:07:27,520

advanced breast cancer that they

145

00:07:34,410 --> 00:07:30,910

couldn't do anything with and that this

146

00:07:37,590 --> 00:07:34,420

same woman had been diagnosed 18 months

147

00:07:39,870 --> 00:07:37,600

earlier and decided not to have any

148

00:07:40,679 --> 00:07:39,880

conventional treatment and instead she

149

00:07:43,409 --> 00:07:40,689

pursued

150

00:07:46,109 --> 00:07:43,419

some alternative treatments all that

151
00:07:48,149 --> 00:07:46,119
happened was that her case got worse and

152
00:07:50,729 --> 00:07:48,159
worse to the point where it was

153
00:07:53,759 --> 00:07:50,739
untreatable when she represented back at

154
00:07:57,089 --> 00:07:53,769
the hospital and so we started from that

155
00:08:01,379 --> 00:07:57,099
point and wanted to know well okay so

156
00:08:05,039 --> 00:08:01,389
how many people do this and that's where

157
00:08:08,449 --> 00:08:05,049
we ran into the very real problem of no

158
00:08:11,999 --> 00:08:08,459
one really knows because no data is kept

159
00:08:15,209 --> 00:08:12,009
essentially if you are diagnosed with

160
00:08:17,339 --> 00:08:15,219
any cancer that has to be recorded and

161
00:08:19,859 --> 00:08:17,349
if you go through a conventional

162
00:08:22,559 --> 00:08:19,869
treatment they have to record what they

163
00:08:24,959 --> 00:08:22,569

give you and what happens to you but if

164

00:08:27,569 --> 00:08:24,969

you decide that you don't want to have a

165

00:08:30,540 --> 00:08:27,579

conventional treatment then there's no

166

00:08:35,610 --> 00:08:30,550

records kept as to what you do and what

167

00:08:38,670 --> 00:08:35,620

happens to you and so we thought yeah

168

00:08:41,339 --> 00:08:38,680

that sounds a bit odd and and how big is

169

00:08:43,589 --> 00:08:41,349

this problem well because there's no

170

00:08:46,079 --> 00:08:43,599

data that means that the literature is

171

00:08:48,389 --> 00:08:46,089

incredibly thin but what we were able to

172

00:08:51,960 --> 00:08:48,399

work out is that it's probably around

173

00:08:55,230 --> 00:08:51,970

between three and five percent of cancer

174

00:08:58,259 --> 00:08:55,240

diagnosis that don't show up for

175

00:09:01,559 --> 00:08:58,269

conventional treatment so if you

176

00:09:04,710 --> 00:09:01,569

multiply the figures out that means that

177

00:09:07,740 --> 00:09:04,720

at 130 thousand four hundred and sixty

178

00:09:12,119 --> 00:09:07,750

six new diagnosis of cancer expected in

179

00:09:14,999 --> 00:09:12,129

Australia this year of those over 5,000

180

00:09:18,990 --> 00:09:15,009

people will not pursue conventional

181

00:09:21,769 --> 00:09:19,000

treatment most of those will assumedly

182

00:09:25,980 --> 00:09:21,779

be pursuing alternative treatments and

183

00:09:28,499 --> 00:09:25,990

of those 5,000 people we can expect

184

00:09:31,199 --> 00:09:28,509

about a thousand a year to die

185

00:09:33,049 --> 00:09:31,209

prematurely because they haven't had

186

00:09:38,280 --> 00:09:33,059

appropriate treatment for their cancer

187

00:09:40,230 --> 00:09:38,290

so as I said we have to be cautious with

188

00:09:45,079 --> 00:09:40,240

those figures because there are no

189

00:09:48,030 --> 00:09:45,089

records kept and intriguingly when I've

190

00:09:50,309 --> 00:09:48,040

talked this out with other people who

191

00:09:52,860 --> 00:09:50,319

are researchers and practitioners in the

192

00:09:54,310 --> 00:09:52,870

area of cancer they are actually

193

00:09:57,430 --> 00:09:54,320

surprised that we

194

00:09:59,560 --> 00:09:57,440

chose a figure of 4% they said it's

195

00:10:01,600 --> 00:09:59,570

probably much higher than that in fact

196

00:10:06,340 --> 00:10:01,610

one said it could be as high as twenty

197

00:10:09,820 --> 00:10:06,350

percent well so those figures based on a

198

00:10:11,260 --> 00:10:09,830

pretty conservative estimate that means

199

00:10:13,650 --> 00:10:11,270

that we're talking about a problem

200

00:10:16,210 --> 00:10:13,660

comparable to the national road toll

201
00:10:17,530 --> 00:10:16,220
that's what really got me about this

202
00:10:19,390 --> 00:10:17,540
story that really grabbed my attention

203
00:10:21,160 --> 00:10:19,400
straight away because you were saying

204
00:10:23,140 --> 00:10:21,170
that the the number of deaths in

205
00:10:25,660 --> 00:10:23,150
Australia as a result of people seeking

206
00:10:27,580 --> 00:10:25,670
alternative rather than conventional

207
00:10:30,160 --> 00:10:27,590
cancer treatments could be about the

208
00:10:33,790 --> 00:10:30,170
same number every year as that of our

209
00:10:37,450 --> 00:10:33,800
national road toll that is an absolutely

210
00:10:40,240 --> 00:10:37,460
frightening thought yeah and the problem

211
00:10:42,760 --> 00:10:40,250
is we really don't know because there

212
00:10:45,940 --> 00:10:42,770
are no records kept and and i suppose

213
00:10:48,820 --> 00:10:45,950

what i've actually before I go into the

214

00:10:52,270 --> 00:10:48,830

most surprising part of this story for

215

00:10:55,270 --> 00:10:52,280

me I should point out that all of the

216

00:10:58,060 --> 00:10:55,280

practitioners in cancer care and cancer

217

00:11:00,960 --> 00:10:58,070

research that we spoke to they all

218

00:11:05,290 --> 00:11:00,970

wanted a clear distinction between

219

00:11:08,320 --> 00:11:05,300

complementary therapies and alternative

220

00:11:11,610 --> 00:11:08,330

treatments for cancer right they're all

221

00:11:15,070 --> 00:11:11,620

in favor of patients exploring

222

00:11:17,170 --> 00:11:15,080

complementary therapies to assist them

223

00:11:20,500 --> 00:11:17,180

on their journey through cancer with

224

00:11:22,420 --> 00:11:20,510

conventional therapies the only thing

225

00:11:24,550 --> 00:11:22,430

they ask there is that you inform your

226

00:11:27,960 --> 00:11:24,560

doctor what you're trying just in case

227

00:11:30,370 --> 00:11:27,970

there's any contradictions and

228

00:11:33,400 --> 00:11:30,380

counteractions among those particular

229

00:11:35,860 --> 00:11:33,410

treatments that's probably a very

230

00:11:38,800 --> 00:11:35,870

important point that patients are

231

00:11:40,810 --> 00:11:38,810

upfront with their cancer specialists

232

00:11:43,060 --> 00:11:40,820

about any supplements or alternative

233

00:11:47,140 --> 00:11:43,070

therapies that they that they are taking

234

00:11:49,270 --> 00:11:47,150

and if the doctors are going to you know

235

00:11:51,580 --> 00:11:49,280

poopoo these therapies completely then

236

00:11:53,470 --> 00:11:51,590

the patients are less likely to divulge

237

00:11:56,110 --> 00:11:53,480

what else they're doing which could

238

00:11:59,140 --> 00:11:56,120

negatively impact on their on their

239

00:12:02,080 --> 00:11:59,150

overall treatment well exactly and you

240

00:12:04,060 --> 00:12:02,090

know that that was I thought a really

241

00:12:06,269 --> 00:12:04,070

enlightened and responsible approach

242

00:12:08,340 --> 00:12:06,279

from the practitioners

243

00:12:12,470 --> 00:12:08,350

you know look if you want to go and

244

00:12:15,389 --> 00:12:12,480

explore crystal therapy or meditation or

245

00:12:17,699 --> 00:12:15,399

whatever you get by all means do it but

246

00:12:21,329 --> 00:12:17,709

don't give up your conventional

247

00:12:23,699 --> 00:12:21,339

treatments and does don't not tell us

248

00:12:26,850 --> 00:12:23,709

what you're doing Australia's Science

249

00:12:30,720 --> 00:12:26,860

Channel media release Thursday the 27th

250

00:12:34,049 --> 00:12:30,730

of October 2016 thousands of cancer

251
00:12:36,420 --> 00:12:34,059
sufferers die unnecessarily every year

252
00:12:38,999 --> 00:12:36,430
thousands of Australians are suffering

253
00:12:41,460 --> 00:12:39,009
and dying prematurely because of

254
00:12:43,739 --> 00:12:41,470
alternative cancer treatments according

255
00:12:46,530 --> 00:12:43,749
to a special investigation by dr. Paul

256
00:12:49,710 --> 00:12:46,540
Willis director of the Royal Institution

257
00:12:52,079 --> 00:12:49,720
of Australia the report details the

258
00:12:53,970 --> 00:12:52,089
distressingly high number of cancer

259
00:12:56,819 --> 00:12:53,980
sufferers who choose to forego

260
00:13:00,179 --> 00:12:56,829
conventional treatment altogether in

261
00:13:02,460 --> 00:13:00,189
search of an alternative cure quote when

262
00:13:04,530 --> 00:13:02,470
we are talking about cancer there is a

263
00:13:06,780 --> 00:13:04,540

difference between complementary

264

00:13:09,749 --> 00:13:06,790

treatments and alternative cures and

265

00:13:11,939 --> 00:13:09,759

quote dr. Wallace said quote many of the

266

00:13:14,519 --> 00:13:11,949

frontline cancer medical practitioners

267

00:13:16,980 --> 00:13:14,529

we spoke with encourage their patients

268

00:13:19,019 --> 00:13:16,990

to seek out unconventional complementary

269

00:13:21,929 --> 00:13:19,029

treatments to help them through their

270

00:13:24,240 --> 00:13:21,939

ordeal the concern here is when a

271

00:13:28,139 --> 00:13:24,250

patient takes up an alternative non

272

00:13:30,780 --> 00:13:28,149

evidence-based cure for their cancer to

273

00:13:33,030 --> 00:13:30,790

the exclusion of conventional medical

274

00:13:34,920 --> 00:13:33,040

treatments when quote he said the report

275

00:13:37,590 --> 00:13:34,930

highlights the lack of recorded evidence

276

00:13:39,720 --> 00:13:37,600

of the efficacy of alternative

277

00:13:42,329 --> 00:13:39,730

treatments as alternative medicine

278

00:13:44,970 --> 00:13:42,339

practitioners are under no obligation to

279

00:13:47,790 --> 00:13:44,980

record their treatments or the progress

280

00:13:50,100 --> 00:13:47,800

of those treatments of increasing

281

00:13:52,379 --> 00:13:50,110

concern is the number of cancer

282

00:13:54,749 --> 00:13:52,389

sufferers who return to conventional

283

00:13:57,809 --> 00:13:54,759

treatment after trying to find an

284

00:14:00,809 --> 00:13:57,819

alternative cure quote usually this

285

00:14:03,239 --> 00:14:00,819

occurs when things go wrong the cancer

286

00:14:06,030 --> 00:14:03,249

has progressed and what may have been a

287

00:14:08,309 --> 00:14:06,040

treatable condition has developed into

288

00:14:11,129 --> 00:14:08,319

an untreatable cancer with poor

289

00:14:13,889 --> 00:14:11,139

prognosis better education and awareness

290

00:14:15,900 --> 00:14:13,899

of what treatments are available as well

291

00:14:18,600 --> 00:14:15,910

as proper supporting documentation and

292

00:14:19,570 --> 00:14:18,610

hard data from alternative practitioners

293

00:14:21,790 --> 00:14:19,580

is

294

00:14:25,000 --> 00:14:21,800

required to empower cancer sufferers to

295

00:14:27,250 --> 00:14:25,010

make more informed decisions on their

296

00:14:29,440 --> 00:14:27,260

overall treatment then quote dr. Willis

297

00:14:31,540 --> 00:14:29,450

said okay Paul what we'll do now is

298

00:14:33,970 --> 00:14:31,550

we'll just have Richard read out the

299

00:14:37,300 --> 00:14:33,980

press release from Australia's science

300

00:14:43,130 --> 00:14:40,550

but for me the most surprising part of

301
00:14:46,100 --> 00:14:43,140
the story concerned that class of

302
00:14:48,680 --> 00:14:46,110
therapies that is that other main focus

303
00:14:52,940 --> 00:14:48,690
of the story and those are alternative

304
00:14:54,889 --> 00:14:52,950
cures for cancer because so far as we

305
00:14:57,590 --> 00:14:54,899
can find out there is no such thing

306
00:15:02,389 --> 00:14:57,600
there is no alternative cure for cancer

307
00:15:05,840 --> 00:15:02,399
and when I asked a question of everyone

308
00:15:08,300 --> 00:15:05,850
in the story here's the golden wand you

309
00:15:10,730 --> 00:15:08,310
can do whatever you like about this

310
00:15:13,190 --> 00:15:10,740
situation what's the one thing you'd

311
00:15:16,880 --> 00:15:13,200
want to do I was expecting to say okay

312
00:15:19,250 --> 00:15:16,890
let's ban naturopaths and homeopaths and

313
00:15:22,820 --> 00:15:19,260

whoever thinks they can cure cancer

314

00:15:25,670 --> 00:15:22,830

let's just ban them in fact they all

315

00:15:28,760 --> 00:15:25,680

said we want them to come forward with

316

00:15:31,010 --> 00:15:28,770

data we want to know what's happening we

317

00:15:33,290 --> 00:15:31,020

want to know what they're doing we want

318

00:15:35,720 --> 00:15:33,300

to know how successful they are we also

319

00:15:38,720 --> 00:15:35,730

want to know about their failures so

320

00:15:41,360 --> 00:15:38,730

that in future if a cancer patient wants

321

00:15:44,690 --> 00:15:41,370

to try an alternative therapy they can

322

00:15:47,180 --> 00:15:44,700

go into it with an educated view that

323

00:15:50,750 --> 00:15:47,190

this is what you can expect this is

324

00:15:53,060 --> 00:15:50,760

what's likely to be the outcome and so

325

00:15:55,460 --> 00:15:53,070

the patient is empowered to make an

326

00:15:57,860 --> 00:15:55,470

informed decision if you take

327

00:16:00,680 --> 00:15:57,870

conventional therapies that is all

328

00:16:02,690 --> 00:16:00,690

explained to you at the outset what the

329

00:16:05,210 --> 00:16:02,700

side effects are going to be how long

330

00:16:07,670 --> 00:16:05,220

the course is going to take what your

331

00:16:10,280 --> 00:16:07,680

prognosis is for taking that particular

332

00:16:11,960 --> 00:16:10,290

course of action and the reason why they

333

00:16:14,930 --> 00:16:11,970

can do that is because they keep

334

00:16:18,019 --> 00:16:14,940

detailed records so really what the

335

00:16:21,410 --> 00:16:18,029

practitioners are saying is tell us what

336

00:16:24,470 --> 00:16:21,420

you guys are up to tell us how well it's

337

00:16:28,699 --> 00:16:24,480

going or otherwise so that patients can

338

00:16:31,220 --> 00:16:28,709

make an informed choice yes so that

339

00:16:33,769 --> 00:16:31,230

sounds like a very good skeptical

340

00:16:35,449 --> 00:16:33,779

approach I mean that's a that's all what

341

00:16:37,970 --> 00:16:35,459

skepticism is about isn't it it's

342

00:16:40,160 --> 00:16:37,980

present me with your evidence and let's

343

00:16:43,389 --> 00:16:40,170

evaluate the evidence and get to an

344

00:16:47,030 --> 00:16:43,399

evidence-based decision or outcome

345

00:16:49,190 --> 00:16:47,040

exactly exactly and i should say it's

346

00:16:50,150 --> 00:16:49,200

intriguing that you know the stories

347

00:16:53,749 --> 00:16:50,160

only being up

348

00:16:56,360 --> 00:16:53,759

an hour or so and already I've had one

349

00:16:58,579 --> 00:16:56,370

person phone me up and make a complaint

350

00:17:01,610 --> 00:16:58,589

that I didn't have any alternative

351

00:17:04,610 --> 00:17:01,620

practitioners in the story and I said

352

00:17:07,819 --> 00:17:04,620

that's not through want of trying I did

353

00:17:10,309 --> 00:17:07,829

actually approach a few various

354

00:17:12,949 --> 00:17:10,319

naturopaths homeopaths and a few other

355

00:17:15,350 --> 00:17:12,959

practitioners who claim to be able to

356

00:17:19,100 --> 00:17:15,360

cure cancer and invited them to come

357

00:17:21,500 --> 00:17:19,110

into the story but I did stress that if

358

00:17:24,289 --> 00:17:21,510

you come into the story I want you to

359

00:17:26,720 --> 00:17:24,299

bring data and evidence I don't want

360

00:17:29,779 --> 00:17:26,730

anecdotes I want data and evidence of

361

00:17:31,810 --> 00:17:29,789

what you do and how successful or

362

00:17:35,090 --> 00:17:31,820

otherwise it was and they all declined

363

00:17:37,899 --> 00:17:35,100

to come on camera that's very telling

364

00:17:42,020 --> 00:17:37,909

isn't it what are the requirements under

365

00:17:44,980 --> 00:17:42,030

Australian regulations of alternative

366

00:17:47,090 --> 00:17:44,990

medicine or therapies practitioners

367

00:17:51,789 --> 00:17:47,100

advertising treatments and cures for

368

00:17:55,399 --> 00:17:51,799

cancer you cannot make a medical claim

369

00:17:59,870 --> 00:17:55,409

that is not supported by evidence in

370

00:18:03,110 --> 00:17:59,880

advertising you cannot in theory in

371

00:18:05,000 --> 00:18:03,120

Australia say you can cure cancer if you

372

00:18:09,440 --> 00:18:05,010

cannot demonstrate that you can actually

373

00:18:12,620 --> 00:18:09,450

do that but the internet and the online

374

00:18:16,370 --> 00:18:12,630

environment is so flexible and pliable

375

00:18:19,970 --> 00:18:16,380

that you can put up a web page which

376

00:18:24,200 --> 00:18:19,980

implies that by eating apricot kernels

377

00:18:26,840 --> 00:18:24,210

you can leave the symptoms or assist in

378

00:18:29,240 --> 00:18:26,850

the recovery process from cancer you

379

00:18:31,220 --> 00:18:29,250

know you can you can word it in ways

380

00:18:35,090 --> 00:18:31,230

that makes it sound like you've got a

381

00:18:38,149 --> 00:18:35,100

cure when in first you haven't so using

382

00:18:39,919 --> 00:18:38,159

using weasel words as they say to give

383

00:18:42,200 --> 00:18:39,929

to give the person looking at it the

384

00:18:44,810 --> 00:18:42,210

vibe of the thing so to speak exactly

385

00:18:47,080 --> 00:18:44,820

exactly and you can also you know you

386

00:18:50,810 --> 00:18:47,090

can put up and there are endless

387

00:18:54,320 --> 00:18:50,820

anecdotes of various naturopaths in

388

00:18:57,049 --> 00:18:54,330

particular saying here's this person who

389

00:19:00,169 --> 00:18:57,059

presented to me with this cancer and I

390

00:19:00,700 --> 00:19:00,179

gave them x y&z and here they are all

391

00:19:04,779 --> 00:19:00,710

better

392

00:19:08,649 --> 00:19:04,789

you know anecdotes are not data you know

393

00:19:11,590 --> 00:19:08,659

how for a start we don't know what else

394

00:19:13,510 --> 00:19:11,600

that particular case involved maybe they

395

00:19:16,149 --> 00:19:13,520

were having conventional treatments as

396

00:19:18,039 --> 00:19:16,159

well we don't know maybe it was a cancer

397

00:19:19,860 --> 00:19:18,049

that they would naturally respond to did

398

00:19:24,610 --> 00:19:19,870

they even have cancer in the first place

399

00:19:28,480 --> 00:19:24,620

but also where are the stories of well I

400

00:19:33,430 --> 00:19:28,490

tried this on Joe Blow and he died

401
00:19:35,590 --> 00:19:33,440
anyway we it is important to record your

402
00:19:38,980 --> 00:19:35,600
failures as it is to record your

403
00:19:41,830 --> 00:19:38,990
successes in order to be able to make a

404
00:19:43,779 --> 00:19:41,840
realistic assessment as to the efficacy

405
00:19:47,470 --> 00:19:43,789
of any treatment that you want to put

406
00:19:50,169 --> 00:19:47,480
forward recently jussayin schoo and her

407
00:19:52,720 --> 00:19:50,179
mother both succumbed to their cancers

408
00:19:56,710 --> 00:19:52,730
by not only for going conventional

409
00:19:58,990 --> 00:19:56,720
medicine but actually promoting the

410
00:20:01,389 --> 00:19:59,000
alternative therapies amongst a huge

411
00:20:03,250 --> 00:20:01,399
huge following with and so I guess

412
00:20:06,490 --> 00:20:03,260
that's another thing where social media

413
00:20:10,149 --> 00:20:06,500

has has had a big influence on this

414

00:20:14,080 --> 00:20:10,159

would you say yeah and our front and the

415

00:20:17,700 --> 00:20:14,090

story you know the points made that this

416

00:20:20,500 --> 00:20:17,710

is probably getting worse as a situation

417

00:20:24,610 --> 00:20:20,510

largely because of social media and

418

00:20:27,760 --> 00:20:24,620

access to not only proposed alternative

419

00:20:30,190 --> 00:20:27,770

therapies but also to case studies of

420

00:20:33,820 --> 00:20:30,200

people who think that they have been

421

00:20:36,039 --> 00:20:33,830

cured by alternative killers and we go

422

00:20:38,529 --> 00:20:36,049

into a few of the higher profile

423

00:20:40,419 --> 00:20:38,539

versions there we look at Steve Jobs we

424

00:20:44,200 --> 00:20:40,429

do look at jessica James Cowan her

425

00:20:48,360 --> 00:20:44,210

mother Sharon where the prime in my in

426

00:20:51,460 --> 00:20:48,370

my eyes occurs with the ants go case is

427

00:20:54,549 --> 00:20:51,470

where she convinced her mother when her

428

00:20:56,139 --> 00:20:54,559

mother developed breast cancer to not go

429

00:20:58,060 --> 00:20:56,149

through the conventional route but to go

430

00:21:01,870 --> 00:20:58,070

through gears and therapy which involves

431

00:21:05,409 --> 00:21:01,880

coffee enemas and good nutrition and the

432

00:21:10,090 --> 00:21:05,419

assessment from practitioners in breast

433

00:21:13,120 --> 00:21:10,100

cancer is that if Jessica's mum Sharon

434

00:21:14,140 --> 00:21:13,130

had gone through conventional therapies

435

00:21:15,970 --> 00:21:14,150

they probably

436

00:21:19,510 --> 00:21:15,980

could have cured her particular type of

437

00:21:21,640 --> 00:21:19,520

cancer instead she went through years in

438

00:21:24,160 --> 00:21:21,650

therapy and she died I think it was

439

00:21:26,830 --> 00:21:24,170

within two years i had as tragic isn't

440

00:21:28,870 --> 00:21:26,840

it just tragic so tell me where can

441

00:21:30,640 --> 00:21:28,880

people go to see this special

442

00:21:32,770 --> 00:21:30,650

investigation and to find out other

443

00:21:34,570 --> 00:21:32,780

things yeah look if it happens in

444

00:21:36,580 --> 00:21:34,580

science it happens on Australia's

445

00:21:39,100 --> 00:21:36,590

science channel if anyone listening

446

00:21:42,940 --> 00:21:39,110

hasn't already bookmarked Australia

447

00:21:45,120 --> 00:21:42,950

science TV and is not a regular visitor

448

00:21:49,720 --> 00:21:45,130

then this is your opportunity to do so

449

00:21:53,620 --> 00:21:49,730

if you go to Australia science TV you

450

00:21:56,020 --> 00:21:53,630

will find the cancer story is featured

451
00:21:59,350 --> 00:21:56,030
on the front page at the moment and a

452
00:22:02,470 --> 00:21:59,360
whole raft of brilliant material which

453
00:22:05,500 --> 00:22:02,480
you know we stand by our integrity on

454
00:22:07,780 --> 00:22:05,510
the science content of everything that

455
00:22:10,870 --> 00:22:07,790
we produce everything that we run

456
00:22:13,800 --> 00:22:10,880
through Australia's science channel so

457
00:22:16,930 --> 00:22:13,810
you'll get involved become part of the

458
00:22:19,330 --> 00:22:16,940
action as I like to say it's a social

459
00:22:22,660 --> 00:22:19,340
media movement swipe right for science

460
00:22:25,810 --> 00:22:22,670
haha very good all right well thank you

461
00:22:28,540 --> 00:22:25,820
so much for joining us and look forward

462
00:22:30,280 --> 00:22:28,550
to this story seeing this story get a

463
00:22:32,860 --> 00:22:30,290

whole lot more coverage in the in the

464

00:22:34,960 --> 00:22:32,870

coming days fantastic it's a story that

465

00:22:37,600 --> 00:22:34,970

needs to be told as wide and as broadly

466

00:22:42,220 --> 00:22:37,610

as possible very much so thank you dr.

467

00:22:44,830 --> 00:22:42,230

Willis always a pleasure that was dr.

468

00:22:48,370 --> 00:22:44,840

Paul Willis from Australia's science

469

00:22:50,830 --> 00:22:48,380

channel and now here is the audio from

470

00:22:59,730 --> 00:22:50,840

the video they produced called no

471

00:23:08,140 --> 00:23:04,240

last year 1207 Australians were killed

472

00:23:10,000 --> 00:23:08,150

on our roads it's a national tragedy but

473

00:23:12,910 --> 00:23:10,010

there's another national tragedy that is

474

00:23:15,250 --> 00:23:12,920

as big or perhaps even bigger than the

475

00:23:17,380 --> 00:23:15,260

roads are you can't help but have a

476

00:23:22,600 --> 00:23:17,390

sinking feeling that maybe we're this

477

00:23:25,020 --> 00:23:22,610

patient is now didn't have to be you can

478

00:23:29,860 --> 00:23:25,030

have a woman present with a really small

479

00:23:31,810 --> 00:23:29,870

cancer that grows from 10 millimeters to

480

00:23:36,370 --> 00:23:31,820

a fun gating cancer and I've seen this

481

00:23:38,700 --> 00:23:36,380

happen within six months I know we can

482

00:23:41,070 --> 00:23:38,710

avoid that

483

00:23:42,630 --> 00:23:41,080

this special investigation by

484

00:23:45,090 --> 00:23:42,640

Australia's Science Channel were

485

00:23:46,980 --> 00:23:45,100

revealed in every year thousands of

486

00:23:49,649 --> 00:23:46,990

Australians are suffering and dying

487

00:23:56,810 --> 00:23:49,659

prematurely because they try alternative

488

00:24:01,980 --> 00:23:59,789

Karen Redmond is the breast care nurse

489

00:24:03,899 --> 00:24:01,990

practitioner at the Queen Elizabeth

490

00:24:07,830 --> 00:24:03,909

Hospital in Adelaide where she nurses

491

00:24:10,649 --> 00:24:07,840

women with breast cancer I focus on the

492

00:24:13,740 --> 00:24:10,659

surgical episode of their care but I've

493

00:24:17,519 --> 00:24:13,750

been doing this for 15 years so I have a

494

00:24:19,740 --> 00:24:17,529

number of long-term patients karen is

495

00:24:22,799 --> 00:24:19,750

increasingly concerned with cases where

496

00:24:25,619 --> 00:24:22,809

women receive a diagnosis of cancer then

497

00:24:28,710 --> 00:24:25,629

disappear from the records we do see

498

00:24:32,480 --> 00:24:28,720

people coming in that are lost to

499

00:24:35,519 --> 00:24:32,490

follow-up or indeed refuse treatment

500

00:24:37,680 --> 00:24:35,529

David Walsh is the head of the general

501
00:24:40,560 --> 00:24:37,690
breast and endocrine surgical unit at

502
00:24:43,560 --> 00:24:40,570
the Queen Elizabeth one of the things

503
00:24:45,840 --> 00:24:43,570
about cancer in particular is that it it

504
00:24:50,360 --> 00:24:45,850
the best outcomes clearly come from

505
00:24:52,919 --> 00:24:50,370
using team approach using a specific

506
00:24:55,649 --> 00:24:52,929
batch of treatments to get the the

507
00:24:59,129 --> 00:24:55,659
ultimate outcome for individuals cancer

508
00:25:00,960 --> 00:24:59,139
so once diagnosed with cancer is there

509
00:25:03,720 --> 00:25:00,970
any compulsion for the patient to

510
00:25:06,149 --> 00:25:03,730
undergo medical treatment no there isn't

511
00:25:09,180 --> 00:25:06,159
but there is a compulsion for us to give

512
00:25:11,730 --> 00:25:09,190
you as the patient sitting in front of

513
00:25:14,610 --> 00:25:11,740

us the best options that we can provide

514

00:25:17,310 --> 00:25:14,620

we would certainly see patients every

515

00:25:19,499 --> 00:25:17,320

year who having been told of a diagnosis

516

00:25:21,860 --> 00:25:19,509

given a treatment plan will disengage

517

00:25:25,230 --> 00:25:21,870

from that process and seek and

518

00:25:27,389 --> 00:25:25,240

alternative means of care our experience

519

00:25:29,549 --> 00:25:27,399

has been that proportion is increasing I

520

00:25:31,019 --> 00:25:29,559

think it's probably because things like

521

00:25:34,019 --> 00:25:31,029

social media and the Internet allow

522

00:25:36,539 --> 00:25:34,029

people to see possibilities outside of

523

00:25:39,539 --> 00:25:36,549

what we're offering and it's never been

524

00:25:43,440 --> 00:25:39,549

easier to look at alternative treatments

525

00:25:45,810 --> 00:25:43,450

and to explore them a quick search of

526

00:25:48,090 --> 00:25:45,820

the internet reveals many alternative

527

00:25:50,369 --> 00:25:48,100

treatments and cures for cancer as well

528

00:25:53,340 --> 00:25:50,379

as warnings about when such treatments

529

00:25:55,409 --> 00:25:53,350

go wrong and there have been some

530

00:25:57,180 --> 00:25:55,419

high-profile cases in recent years where

531

00:25:59,549 --> 00:25:57,190

people have pursued alternative

532

00:26:01,499 --> 00:25:59,559

treatments for their cancers only to

533

00:26:05,830 --> 00:26:01,509

eventually die from them

534

00:26:08,049 --> 00:26:05,840

in October 2011 Steve Jobs co-founder of

535

00:26:12,009 --> 00:26:08,059

Apple computers died from pancreatic

536

00:26:14,019 --> 00:26:12,019

cancer at the age of 56 he delayed

537

00:26:16,659 --> 00:26:14,029

conventional treatments for nine months

538

00:26:19,149 --> 00:26:16,669

to pursue acupuncture special fruit

539

00:26:21,450 --> 00:26:19,159

juices spiritualists and other

540

00:26:23,889 --> 00:26:21,460

treatments he found on the internet

541

00:26:26,529 --> 00:26:23,899

medical professionals claimed they may

542

00:26:28,720 --> 00:26:26,539

have extended his life or even cured his

543

00:26:32,529 --> 00:26:28,730

particular cancer if they'd been allowed

544

00:26:35,139 --> 00:26:32,539

to act early enough Athena star woman

545

00:26:37,419 --> 00:26:35,149

born Helen roseum was an Australian

546

00:26:41,409 --> 00:26:37,429

spiritualist who built a global business

547

00:26:43,210 --> 00:26:41,419

as an astrologer and author she rejected

548

00:26:46,649 --> 00:26:43,220

medical treatment for her breast cancer

549

00:26:48,940 --> 00:26:46,659

in favor of mind-body healing after

550

00:26:51,129 --> 00:26:48,950

seven months of herbal remedies

551
00:26:53,110 --> 00:26:51,139
meditation and other alternative

552
00:26:55,360 --> 00:26:53,120
techniques she admitted herself to

553
00:26:57,999 --> 00:26:55,370
hospital suffering from unbearable pain

554
00:27:00,490 --> 00:26:58,009
but by then her condition was

555
00:27:05,529 --> 00:27:00,500
untreatable she died of breast cancer

556
00:27:07,659 --> 00:27:05,539
aged 59 Jessica ansco the

557
00:27:11,470 --> 00:27:07,669
self-proclaimed wellness warrior died of

558
00:27:13,629 --> 00:27:11,480
her cancer in February 2015 she rejected

559
00:27:15,970 --> 00:27:13,639
medical surgery for her particularly

560
00:27:17,980 --> 00:27:15,980
rare and nasty cancer preferring

561
00:27:20,470 --> 00:27:17,990
something called gearson therapy

562
00:27:23,320 --> 00:27:20,480
involving enhanced nutrition and coffee

563
00:27:25,330 --> 00:27:23,330

enemas while the medical profession are

564

00:27:27,820 --> 00:27:25,340

uncertain about how much more they could

565

00:27:29,950 --> 00:27:27,830

have done for Jessica given her unusual

566

00:27:31,930 --> 00:27:29,960

and aggressive cancer they could have

567

00:27:34,210 --> 00:27:31,940

saved the life of Jessica's mother if

568

00:27:36,519 --> 00:27:34,220

only she had followed medical treatments

569

00:27:39,460 --> 00:27:36,529

instead of the alternatives offered by

570

00:27:41,590 --> 00:27:39,470

her daughter Sharon ansco died of an

571

00:27:48,730 --> 00:27:41,600

otherwise treatable breast cancer in

572

00:27:51,580 --> 00:27:48,740

October 2013 professor ianova is the

573

00:27:54,399 --> 00:27:51,590

director at the samson institute and a

574

00:27:58,509 --> 00:27:54,409

long-term cancer researcher oh there's

575

00:28:01,480 --> 00:27:58,519

always people that reject conventional

576

00:28:05,619 --> 00:28:01,490

treatments but because cancer is is a

577

00:28:07,299 --> 00:28:05,629

multi modality disease in terms of

578

00:28:09,490 --> 00:28:07,309

treatment where you might need surgery

579

00:28:11,830 --> 00:28:09,500

you might need rodeo therapy you might

580

00:28:14,300 --> 00:28:11,840

need some sort of chemotherapy or

581

00:28:16,370 --> 00:28:14,310

systemic therapy then

582

00:28:18,380 --> 00:28:16,380

you might select one part of the

583

00:28:20,330 --> 00:28:18,390

treatment but reject the others so

584

00:28:23,930 --> 00:28:20,340

there's many decisions you have to make

585

00:28:26,330 --> 00:28:23,940

along the course of a cancer journey in

586

00:28:30,110 --> 00:28:26,340

a number of cases women are upfront

587

00:28:32,330 --> 00:28:30,120

about their views and certainly a number

588

00:28:35,990 --> 00:28:32,340

of the patients that I say go off and

589

00:28:39,320 --> 00:28:36,000

seek alternative therapies they may go

590

00:28:42,190 --> 00:28:39,330

to you know a health sort of retreat

591

00:28:46,010 --> 00:28:42,200

type Center they may be seeing

592

00:28:48,440 --> 00:28:46,020

naturopaths they may even be having

593

00:28:50,750 --> 00:28:48,450

family members treat them but

594

00:28:53,630 --> 00:28:50,760

effectively they're not having effective

595

00:28:55,550 --> 00:28:53,640

treatment for breast cancer we do need

596

00:28:57,680 --> 00:28:55,560

to be quite clear here that when we're

597

00:28:59,690 --> 00:28:57,690

talking about cancer there is a

598

00:29:03,140 --> 00:28:59,700

difference between complementary

599

00:29:06,080 --> 00:29:03,150

therapies and alternative treatments we

600

00:29:07,550 --> 00:29:06,090

encourage patients to explore possible

601
00:29:09,560 --> 00:29:07,560
treatments because we don't have all the

602
00:29:11,480 --> 00:29:09,570
answers and we would like to add them

603
00:29:13,970 --> 00:29:11,490
into a conventional plan and that's what

604
00:29:16,940 --> 00:29:13,980
I think is a complementary treatment the

605
00:29:19,760 --> 00:29:16,950
idea that you have to completely leave

606
00:29:21,170 --> 00:29:19,770
conventional treatments behind and that

607
00:29:23,450 --> 00:29:21,180
these alternative treatments will only

608
00:29:26,600 --> 00:29:23,460
work in isolation and will be

609
00:29:28,040 --> 00:29:26,610
handicapped or or or cease being

610
00:29:29,240 --> 00:29:28,050
effective because of conventional

611
00:29:32,000 --> 00:29:29,250
treatment that's what I think is really

612
00:29:34,610 --> 00:29:32,010
the dangerous idea some of them will be

613
00:29:38,150 --> 00:29:34,620

using therapies to complement standard

614

00:29:43,120 --> 00:29:38,160

therapy the more dangerous issue is

615

00:29:47,570 --> 00:29:43,130

where patients elect to substitute a an

616

00:29:51,500 --> 00:29:47,580

unknown therapy for a evidence-based

617

00:29:53,870 --> 00:29:51,510

therapy why would a patient given a

618

00:29:56,240 --> 00:29:53,880

diagnosis of life-threatening cancer

619

00:29:58,010 --> 00:29:56,250

turn away from conventional medical

620

00:30:00,590 --> 00:29:58,020

treatments and seek out alternative

621

00:30:02,720 --> 00:30:00,600

therapies I've come to Macquarie

622

00:30:05,330 --> 00:30:02,730

University to meet associate professor

623

00:30:08,330 --> 00:30:05,340

Maria Kangas who has conducted extensive

624

00:30:11,150 --> 00:30:08,340

research around the psychology of cancer

625

00:30:15,950 --> 00:30:11,160

patients there's a multitude of factors

626
00:30:17,510 --> 00:30:15,960
as to why that may be the case we don't

627
00:30:19,940 --> 00:30:17,520
have a lot of research in the field

628
00:30:22,700 --> 00:30:19,950
there's some publications in the

629
00:30:25,730 --> 00:30:22,710
international literature indicating that

630
00:30:27,460 --> 00:30:25,740
it could be a person's personal values

631
00:30:30,430 --> 00:30:27,470
their belief system

632
00:30:34,029 --> 00:30:30,440
it could be an emotional fear factor in

633
00:30:36,820 --> 00:30:34,039
terms of their understanding as to what

634
00:30:38,620 --> 00:30:36,830
the treatments going to entail fear of

635
00:30:40,630 --> 00:30:38,630
the side effects and the repercussions

636
00:30:43,539 --> 00:30:40,640
that will have on their quality of life

637
00:30:45,159 --> 00:30:43,549
it could also have an impact as to

638
00:30:47,260 --> 00:30:45,169

whether they've witnessed other close

639

00:30:50,220 --> 00:30:47,270

family members or friends going through

640

00:30:53,710 --> 00:30:50,230

such a similar ordeal and not wanting to

641

00:30:56,620 --> 00:30:53,720

experience a similar situation or fear

642

00:30:59,140 --> 00:30:56,630

of burdening families it could also be

643

00:31:00,970 --> 00:30:59,150

the faith and trust that they have in

644

00:31:02,770 --> 00:31:00,980

the medical system if they've

645

00:31:06,060 --> 00:31:02,780

established a good relationship and

646

00:31:07,899 --> 00:31:06,070

rapport with the treatment team and

647

00:31:10,570 --> 00:31:07,909

whether they've even had negative

648

00:31:13,320 --> 00:31:10,580

experiences with the health system and

649

00:31:16,600 --> 00:31:13,330

not necessarily linked to cancer and

650

00:31:20,080 --> 00:31:16,610

surely a diagnosis of cancer must be

651
00:31:22,990 --> 00:31:20,090
utterly terrifying if it's come out of

652
00:31:25,510 --> 00:31:23,000
the blue and unexpected usually shock

653
00:31:27,460 --> 00:31:25,520
and dismay are quite common there's the

654
00:31:30,270 --> 00:31:27,470
fear it's understandable the fear of the

655
00:31:33,250 --> 00:31:30,280
unknown suddenly it's a mortality issue

656
00:31:36,340 --> 00:31:33,260
some actually are relieved because they

657
00:31:38,140 --> 00:31:36,350
may be having six type of symptoms or

658
00:31:40,659 --> 00:31:38,150
not feeling well or not quite right for

659
00:31:42,640 --> 00:31:40,669
a number of months and I've had patients

660
00:31:44,380 --> 00:31:42,650
who are relieved to hear that something

661
00:31:46,950 --> 00:31:44,390
definitely is wrong with them and there

662
00:31:49,659 --> 00:31:46,960
is potential treatment options for them

663
00:31:51,310 --> 00:31:49,669

professor alva literally wrote the book

664

00:31:54,669 --> 00:31:51,320

on complementary and alternative

665

00:31:57,820 --> 00:31:54,679

medicines in cancer treatment what we

666

00:32:00,159 --> 00:31:57,830

wanted to do was present the range of

667

00:32:02,890 --> 00:32:00,169

opinions in the one book that we wanted

668

00:32:05,919 --> 00:32:02,900

the perspectives of practitioners that

669

00:32:07,990 --> 00:32:05,929

the Deltan in alternate medicines and we

670

00:32:10,960 --> 00:32:08,000

wanted the perspectives of the

671

00:32:12,970 --> 00:32:10,970

scientific community we understand the

672

00:32:15,250 --> 00:32:12,980

desperation but we don't want people to

673

00:32:18,460 --> 00:32:15,260

harm themselves and the main question

674

00:32:21,159 --> 00:32:18,470

one needs to ask is can any of these

675

00:32:24,669 --> 00:32:21,169

alternative therapies actually cure

676
00:32:26,500 --> 00:32:24,679
cancer so that's the problem I can tell

677
00:32:27,909 --> 00:32:26,510
you the efficacy of all the treatments

678
00:32:30,220 --> 00:32:27,919
that we would deliver through our

679
00:32:33,070 --> 00:32:30,230
institution and we have to demonstrate

680
00:32:35,590 --> 00:32:33,080
that there is a demonstrably scientific

681
00:32:38,399 --> 00:32:35,600
benefit in other words more people have

682
00:32:41,149 --> 00:32:38,409
to benefit from it than do not the

683
00:32:45,259 --> 00:32:41,159
alternative treatments are usually based

684
00:32:47,629 --> 00:32:45,269
on claims based upon testimonials and we

685
00:32:49,489 --> 00:32:47,639
are continually asking to see where is

686
00:32:53,060 --> 00:32:49,499
the scientific evidence that a proposed

687
00:32:55,729 --> 00:32:53,070
plan of care has a benefit they haven't

688
00:32:59,269 --> 00:32:55,739

actually been subjected to any sort of

689

00:33:02,149 --> 00:32:59,279

formal trials so usually there's no

690

00:33:03,769 --> 00:33:02,159

evidence beyond a series of anecdotes

691

00:33:06,950 --> 00:33:03,779

and the trouble with a series of

692

00:33:09,469 --> 00:33:06,960

anecdotes is even if something does work

693

00:33:12,619 --> 00:33:09,479

for one person it's very important to

694

00:33:15,409 --> 00:33:12,629

know whether it'll work one out of two

695

00:33:17,899 --> 00:33:15,419

one out of ten one out of 100 one out of

696

00:33:20,629 --> 00:33:17,909

ten thousand times because something

697

00:33:22,759 --> 00:33:20,639

that works one out of ten that's charged

698

00:33:26,570 --> 00:33:22,769

that doesn't mean everyone should take

699

00:33:29,029 --> 00:33:26,580

it the lack of record-keeping makes it

700

00:33:31,519 --> 00:33:29,039

difficult to follow just how efficacious

701
00:33:34,789 --> 00:33:31,529
alternative therapies are for cancer

702
00:33:37,100 --> 00:33:34,799
treatments the literature is thin but it

703
00:33:40,820 --> 00:33:37,110
makes grim reading

704
00:33:42,860 --> 00:33:40,830
this study in Alberta Canada track 185

705
00:33:45,230 --> 00:33:42,870
breast cancer patients who refused

706
00:33:48,230 --> 00:33:45,240
medical treatments the five-year

707
00:33:50,299 --> 00:33:48,240
survival rate was at 43.2 percent

708
00:33:52,700 --> 00:33:50,309
compared to eighty one point nine

709
00:33:56,330 --> 00:33:52,710
percent for those who underwent medical

710
00:33:58,190 --> 00:33:56,340
treatments this Swiss study found the

711
00:34:00,350 --> 00:33:58,200
10-year survival rate for women who

712
00:34:02,900 --> 00:34:00,360
refused surgery for breast cancer was

713
00:34:07,880 --> 00:34:02,910

around half that of those women who had

714

00:34:09,800 --> 00:34:07,890

the surgery this US study followed 47

715

00:34:12,109 --> 00:34:09,810

breast cancer patients who refused or

716

00:34:14,389 --> 00:34:12,119

delayed conventional treatments and took

717

00:34:17,359 --> 00:34:14,399

a variety of alternative therapies they

718

00:34:22,040 --> 00:34:17,369

all greatly increased the risk of dying

719

00:34:24,349 --> 00:34:22,050

from their diseases within 10 years that

720

00:34:25,879 --> 00:34:24,359

maps are nicely into my understanding

721

00:34:28,909 --> 00:34:25,889

the international literature on this

722

00:34:31,690 --> 00:34:28,919

where again it confirms there is not

723

00:34:36,800 --> 00:34:31,700

that much a prospective record-keeping

724

00:34:38,599 --> 00:34:36,810

and in when they do take up alternative

725

00:34:41,510 --> 00:34:38,609

treatments what is their underlying

726
00:34:43,129 --> 00:34:41,520
motivation and what proportion then come

727
00:34:47,450 --> 00:34:43,139
back to conventional treatment when it

728
00:34:50,300 --> 00:34:47,460
doesn't work sometimes the drop-off

729
00:34:52,639 --> 00:34:50,310
patients re-enter the hospital seeking

730
00:34:55,070 --> 00:34:52,649
conventional treatment well they clearly

731
00:34:57,650 --> 00:34:55,080
come back usually when things are going

732
00:35:00,920 --> 00:34:57,660
poorly because that is when they

733
00:35:03,920 --> 00:35:00,930
recognize that they have symptoms or

734
00:35:07,099 --> 00:35:03,930
situation where they need help I've seen

735
00:35:11,510 --> 00:35:07,109
a number of women come back I can recall

736
00:35:13,730 --> 00:35:11,520
a number that have come back between 36

737
00:35:16,130 --> 00:35:13,740
or 12 months after we've told them they

738
00:35:18,050 --> 00:35:16,140

have a breast cancer I've also seen

739

00:35:22,040 --> 00:35:18,060

women come back a number of years later

740

00:35:25,040 --> 00:35:22,050

they have a large fun gating saw or mass

741

00:35:26,780 --> 00:35:25,050

on their chest it's very difficult to

742

00:35:29,810 --> 00:35:26,790

dress from a nursing point of view and

743

00:35:31,460 --> 00:35:29,820

they also have evidence of cancer

744

00:35:34,220 --> 00:35:31,470

elsewhere in their body and I've

745

00:35:37,580 --> 00:35:34,230

personally SAT with women that have just

746

00:35:40,250 --> 00:35:37,590

cried for half an hour wild and cried

747

00:35:42,740 --> 00:35:40,260

for half an hour because they're in such

748

00:35:46,130 --> 00:35:42,750

a mess from what was a treatable cancer

749

00:35:48,590 --> 00:35:46,140

a number of years ago to now being witty

750

00:35:50,940 --> 00:35:48,600

star and it's heartbreaking when they

751
00:35:53,730 --> 00:35:50,950
come back or if they don't come back you

752
00:35:57,150 --> 00:35:53,740
don't know what's happened to them so

753
00:35:59,310 --> 00:35:57,160
how big is this problem I'd anticipate

754
00:36:01,020 --> 00:35:59,320
between three and five percent and

755
00:36:03,690 --> 00:36:01,030
that's a bit of a guesstimate we don't

756
00:36:05,760 --> 00:36:03,700
have accurate numbers but based on the

757
00:36:08,819 --> 00:36:05,770
people I've seen over those years I'd

758
00:36:10,650 --> 00:36:08,829
guess it would be around there once

759
00:36:12,720 --> 00:36:10,660
again the lack of record-keeping makes

760
00:36:15,540 --> 00:36:12,730
it difficult to track just how big the

761
00:36:17,339 --> 00:36:15,550
problem is but if between three and five

762
00:36:19,710 --> 00:36:17,349
percent of women diagnosed with breast

763
00:36:23,940 --> 00:36:19,720

cancer do not show up for conventional

764

00:36:26,520 --> 00:36:23,950

treatments that will be around 643 women

765

00:36:28,859 --> 00:36:26,530

of the estimated sixteen thousand and

766

00:36:34,020 --> 00:36:28,869

eighty four new cases of breast cancer

767

00:36:37,280 --> 00:36:34,030

diagnosed in Australia in 2016 if these

768

00:36:42,060 --> 00:36:37,290

proportions hold true across all of the

769

00:36:48,690 --> 00:36:42,070

130,000 466 new cancers estimated to be

770

00:36:51,450 --> 00:36:48,700

diagnosed in 2016 then around 5218 cases

771

00:36:55,290 --> 00:36:51,460

will not receive appropriate treatments

772

00:37:01,800 --> 00:36:55,300

this may lead to around 1000 premature

773

00:37:04,079 --> 00:37:01,810

deaths every year perhaps surprisingly

774

00:37:06,569 --> 00:37:04,089

none of the researchers and cancer work

775

00:37:09,059 --> 00:37:06,579

as we spoke to want to see a banning of

776
00:37:10,740 --> 00:37:09,069
dubious alternative cancer treatments or

777
00:37:13,260 --> 00:37:10,750
making conventional treatments

778
00:37:15,150 --> 00:37:13,270
compulsory so it's one thing for me to

779
00:37:17,130 --> 00:37:15,160
say I've got 15 years experience in

780
00:37:18,839 --> 00:37:17,140
cancer care and yes I've seen these

781
00:37:20,730 --> 00:37:18,849
people and I believe these these

782
00:37:23,670 --> 00:37:20,740
treatments don't work if you had

783
00:37:25,620 --> 00:37:23,680
properly constructed randomized control

784
00:37:27,210 --> 00:37:25,630
trials for example you'd be able to

785
00:37:28,800 --> 00:37:27,220
you'd be able to have really strong

786
00:37:30,750 --> 00:37:28,810
evidence what we don't have any evidence

787
00:37:32,579 --> 00:37:30,760
around whether these these treatments

788
00:37:34,770 --> 00:37:32,589

work or don't part from our expert

789

00:37:36,630 --> 00:37:34,780

opinion which is quite strong I think

790

00:37:38,339 --> 00:37:36,640

that that ultimately what an individual

791

00:37:40,349 --> 00:37:38,349

has for their Cancer Care is up to them

792

00:37:42,240 --> 00:37:40,359

and they will have their own views and

793

00:37:45,089 --> 00:37:42,250

styles that suit them and and and

794

00:37:47,520 --> 00:37:45,099

situations will change what I'm really

795

00:37:49,109 --> 00:37:47,530

saying is not to compel anyone to not do

796

00:37:51,690 --> 00:37:49,119

something or do something but I'm really

797

00:37:54,089 --> 00:37:51,700

saying that if you are offering cancer

798

00:37:57,000 --> 00:37:54,099

treatments then you should be able to

799

00:37:58,890 --> 00:37:57,010

give data about your outcomes not just

800

00:38:01,290 --> 00:37:58,900

one or two cases not just your

801
00:38:04,710 --> 00:38:01,300
successful cases but really produce the

802
00:38:07,020 --> 00:38:04,720
evidence as we do in

803
00:38:09,450 --> 00:38:07,030
conventional care system to show that

804
00:38:12,360 --> 00:38:09,460
this treatment is of benefit so I think

805
00:38:14,070 --> 00:38:12,370
rather than get rid of something or ban

806
00:38:17,310 --> 00:38:14,080
something I think it's a matter of

807
00:38:20,640 --> 00:38:17,320
empowering the the consumer if you like

808
00:38:24,290 --> 00:38:20,650
by making them more aware of the sort of

809
00:38:27,420 --> 00:38:24,300
choices they have but make no mistake

810
00:38:30,420 --> 00:38:27,430
there is no alternative cure for cancer

811
00:38:54,780 --> 00:38:30,430
and wasting time trying to find one is

812
00:38:57,450 --> 00:38:54,790
all too often a fatal mistake do you

813
00:38:59,270 --> 00:38:57,460

think ink and you'll pass thinking the

814

00:39:04,440 --> 00:38:59,280

people who brought you dr. Neil deGrasse

815

00:39:07,530 --> 00:39:04,450

Tyson James Randi dr. Ben Goldacre dr.

816

00:39:10,020 --> 00:39:07,540

Lisa Randall sam Harris and many more

817

00:39:13,770 --> 00:39:10,030

are delighted to announce their annual

818

00:39:16,200 --> 00:39:13,780

pass for 2017 this pass allows access to

819

00:39:17,760 --> 00:39:16,210

all their events priced at just two

820

00:39:20,460 --> 00:39:17,770

hundred and ninety-nine dollars the

821

00:39:24,450 --> 00:39:20,470

average cost of two tickets the annual

822

00:39:26,640 --> 00:39:24,460

pass will include a VIP seating and a

823

00:39:28,580 --> 00:39:26,650

podcast and video versions of the event

824

00:39:31,530 --> 00:39:28,590

just in case you can't make it in person

825

00:39:33,870 --> 00:39:31,540

do you think ink and your past is a

826

00:39:36,930 --> 00:39:33,880

perfect way for regular thinkers to

827

00:39:38,850 --> 00:39:36,940

maximize their experience as well as a

828

00:39:42,060 --> 00:39:38,860

clever present for friends and family

829

00:39:44,280 --> 00:39:42,070

looking to explore smart answers two big

830

00:39:47,400 --> 00:39:44,290

questions a highlight of the coming

831

00:39:50,610 --> 00:39:47,410

season is none other than named Jane

832

00:39:54,960 --> 00:39:50,620

Goodall for more information and to get

833

00:40:09,120 --> 00:39:54,970

your annual pass visit think inc dot org

834

00:40:23,260 --> 00:40:14,920

awesome awesome let's all take this with

835

00:40:26,200 --> 00:40:23,270

a grain of salt he's around second what

836

00:40:27,700 --> 00:40:26,210

are we doing okay well I'm going to

837

00:40:29,290 --> 00:40:27,710

stick into asking something no um beat

838

00:40:31,150 --> 00:40:29,300

you being in to meet I know you're being

839

00:40:36,970 --> 00:40:31,160

used I didn't do that you used to being

840

00:40:38,589 --> 00:40:36,980

on the other side hi hello how are you

841

00:40:41,099 --> 00:40:38,599

I'm good I just talked over you when you

842

00:40:43,990 --> 00:40:41,109

said my name I feel bad Harrison Tafoya

843

00:40:46,690 --> 00:40:44,000

you pronounce it right I usually give

844

00:40:50,440 --> 00:40:46,700

them grits and Ozzy's a pass cuz they

845

00:40:52,420 --> 00:40:50,450

called me cara cara yeah but thank you

846

00:40:54,160 --> 00:40:52,430

for telling me Kara I listen to the

847

00:40:55,510 --> 00:40:54,170

podcast is what we do I can I pronounce

848

00:40:58,020 --> 00:40:55,520

your name correctly I don't know if I've

849

00:41:00,940 --> 00:40:58,030

ever set it out that Iran yeah that's

850

00:41:03,640 --> 00:41:00,950

close enough okay would you do like eat

851

00:41:09,309 --> 00:41:03,650

on like that was like no no yeah iran

852

00:41:11,589 --> 00:41:09,319

tehran iran good so you're a science

853

00:41:13,720 --> 00:41:11,599

communicator you've been on the skeptic

854

00:41:16,720 --> 00:41:13,730

skeptics guide to the universe now for

855

00:41:18,849 --> 00:41:16,730

how long I have no idea um over a year

856

00:41:21,910 --> 00:41:18,859

but I don't I'd have to look at my

857

00:41:24,640 --> 00:41:21,920

calendar so i think most listeners to

858

00:41:26,319 --> 00:41:24,650

the skeptic sound mm-hmm will probably

859

00:41:27,099 --> 00:41:26,329

also listen to the script Otago

860

00:41:29,109 --> 00:41:27,109

University

861

00:41:31,150 --> 00:41:29,119

you will know about your duties day but

862

00:41:33,670 --> 00:41:31,160

what else you do what else do I do well

863

00:41:37,989 --> 00:41:33,680

I do I have a podcast also called talk

864

00:41:39,579 --> 00:41:37,999

dirty which I started I don't know how

865

00:41:43,390 --> 00:41:39,589

long ago three maybe three years ago

866

00:41:45,069 --> 00:41:43,400

before i joined skeptics guide i think

867

00:41:46,210 --> 00:41:45,079

i'm coming up on episode like 130

868

00:41:50,039 --> 00:41:46,220

something like that where I do

869

00:41:52,239 --> 00:41:50,049

one-on-one conversations with mostly

870

00:41:53,559 --> 00:41:52,249

scientists sometimes people who

871

00:41:56,859 --> 00:41:53,569

skeptical or the Atheist movement

872

00:41:58,930 --> 00:41:56,869

sometimes people who work for you know

873

00:42:00,249 --> 00:41:58,940

social justice civil liberties things

874

00:42:02,529 --> 00:42:00,259

like that and sometimes just people that

875

00:42:03,970 --> 00:42:02,539

I find interesting and I also you know

876

00:42:06,789 --> 00:42:03,980

my day job is that I work in in

877

00:42:10,059 --> 00:42:06,799

television generally hosting or

878

00:42:12,960 --> 00:42:10,069

co-hosting different television show so

879

00:42:16,509 --> 00:42:12,970

any given time i'm working on 125

880

00:42:18,220 --> 00:42:16,519

prospects um the life of a freelancer

881

00:42:20,170 --> 00:42:18,230

you've been a science communicator for a

882

00:42:22,420 --> 00:42:20,180

while what's the background of the board

883

00:42:26,859 --> 00:42:22,430

uses communication yeah about I think

884

00:42:28,539 --> 00:42:26,869

seven eight years now um I came to LA

885

00:42:30,160 --> 00:42:28,549

from New York but I was only in New York

886

00:42:31,359 --> 00:42:30,170

year prior to that I lived in Texas

887

00:42:33,729 --> 00:42:31,369

that's where I was born and raised I

888

00:42:35,799 --> 00:42:33,739

studied psychology for my undergrad

889

00:42:38,620 --> 00:42:35,809

psychology and philosophy was my minor

890

00:42:40,299 --> 00:42:38,630

and then I did neurobiology for my

891

00:42:42,849 --> 00:42:40,309

Master's I moved to New York to start a

892

00:42:45,549 --> 00:42:42,859

PhD in clinical neuropsychology and

893

00:42:47,319 --> 00:42:45,559

that's when I kind of realized that

894

00:42:49,839 --> 00:42:47,329

bench work maybe wasn't the future for

895

00:42:50,950 --> 00:42:49,849

me I had been coming to Los Angeles for

896

00:42:54,249 --> 00:42:50,960

quite some time at that point and

897

00:42:55,359 --> 00:42:54,259

decided to try my hand at it I was kind

898

00:42:57,309 --> 00:42:55,369

of a weird experiment I always

899

00:42:59,109 --> 00:42:57,319

anticipated to just find a new lab and

900

00:43:01,660 --> 00:42:59,119

go back to school but I managed to get a

901
00:43:03,789 --> 00:43:01,670
few good gigs and it kept happening and

902
00:43:07,180 --> 00:43:03,799
kept happening and eventually kind of

903
00:43:09,190 --> 00:43:07,190
became a full-time freelance job which

904
00:43:11,349 --> 00:43:09,200
is anybody who you know is a freelancer

905
00:43:13,569 --> 00:43:11,359
especially in media knows it's a lot of

906
00:43:15,970 --> 00:43:13,579
working to work you know you might not

907
00:43:19,089 --> 00:43:15,980
be working every day but you're always

908
00:43:21,970 --> 00:43:19,099
working to get those you gigs it's feast

909
00:43:23,979 --> 00:43:21,980
and famine for sure back to the skeptic

910
00:43:26,079 --> 00:43:23,989
I skeptics guide to the universe so just

911
00:43:28,420 --> 00:43:26,089
how how did you get to be on that trip I

912
00:43:31,779 --> 00:43:28,430
have no idea i think i met the jobs the

913
00:43:34,900 --> 00:43:31,789

first time at tam a few years prior to

914

00:43:36,609 --> 00:43:34,910

actually joining the show obviously i

915

00:43:39,630 --> 00:43:36,619

knew of the skeptics guide to the

916

00:43:41,800 --> 00:43:39,640

universe and i knew the guy

917

00:43:45,220 --> 00:43:41,810

loosely I knew them better once I met

918

00:43:47,890 --> 00:43:45,230

them J as everybody who knows Janos like

919

00:43:49,690 --> 00:43:47,900

when you meet Jay you instantly feel

920

00:43:51,040 --> 00:43:49,700

like you've known him forever and so he

921

00:43:52,410 --> 00:43:51,050

always made me feel really comfortable

922

00:43:56,319 --> 00:43:52,420

like we had been friends for a long time

923

00:43:59,920 --> 00:43:56,329

um they had me on the show maybe twice

924

00:44:01,870 --> 00:43:59,930

if I'm remembering correctly um maybe

925

00:44:05,650 --> 00:44:01,880

once as a guest and maybe once as a

926

00:44:07,359 --> 00:44:05,660

fill-in co-host I had no idea at the

927

00:44:08,920 --> 00:44:07,369

time but apparently it was a trial run

928

00:44:12,069 --> 00:44:08,930

for them and they were trying to figure

929

00:44:14,170 --> 00:44:12,079

out who should be no vision yeah and I

930

00:44:18,040 --> 00:44:14,180

didn't know no I didn't I didn't sign up

931

00:44:19,510 --> 00:44:18,050

for that um yeah have fun it was great

932

00:44:21,460 --> 00:44:19,520

and I guess I passed yet they reached

933

00:44:23,589 --> 00:44:21,470

out to me it was pretty funny when it

934

00:44:25,060 --> 00:44:23,599

was Jay and Steve on a skype call with

935

00:44:26,920 --> 00:44:25,070

me and they are like look I've got

936

00:44:29,829 --> 00:44:26,930

something very serious we want to talk

937

00:44:33,040 --> 00:44:29,839

to you oh okay what am I do wrong um and

938

00:44:36,370 --> 00:44:33,050

then they offered me the spot and Ira

939

00:44:37,540 --> 00:44:36,380

meant Allah it felt really good so uh so

940

00:44:40,540 --> 00:44:37,550

yeah we're you enjoying one since then

941

00:44:42,790 --> 00:44:40,550

oh my god yes and they make me feel like

942

00:44:45,579 --> 00:44:42,800

what like a novella like I feel like one

943

00:44:49,030 --> 00:44:45,589

of their sisters they have done they do

944

00:44:51,760 --> 00:44:49,040

it's crazy anybody who like knows no you

945

00:44:53,650 --> 00:44:51,770

just they're just so welcoming mr. this

946

00:44:57,220 --> 00:44:53,660

there's something about this I mean when

947

00:44:59,200 --> 00:44:57,230

I go to Connecticut I like stayed let's

948

00:45:00,849 --> 00:44:59,210

see last time I was at her one one night

949

00:45:03,940 --> 00:45:00,859

I stayed or two nights maybe I stayed in

950

00:45:07,200 --> 00:45:03,950

Jays basement um I fixed the light let

951
00:45:10,720 --> 00:45:07,210
alone in the basement yeah oh thank you

952
00:45:13,270 --> 00:45:10,730
there's really comfortable and I was oh

953
00:45:15,339 --> 00:45:13,280
my gosh like bonding with Olivia so much

954
00:45:17,680 --> 00:45:15,349
she's too much she's the cutest little

955
00:45:20,020 --> 00:45:17,690
panties hey I stayed over at evans house

956
00:45:21,550 --> 00:45:20,030
one night and snuggled with the dog I

957
00:45:24,640 --> 00:45:21,560
mean there you know it's like your

958
00:45:27,430 --> 00:45:24,650
family and how much preparation do you

959
00:45:29,440 --> 00:45:27,440
require mean each show is now in a bit

960
00:45:32,459 --> 00:45:29,450
but first of all I know that you record

961
00:45:37,390 --> 00:45:32,469
for Toby bug ya

962
00:45:40,900 --> 00:45:37,400
about three hours or chef once once the

963
00:45:42,939 --> 00:45:40,910

profanities are removed that's professor

964

00:45:45,189 --> 00:45:42,949

DS and all of them bickering the

965

00:45:48,039 --> 00:45:45,199

brotherly bickering it happens a lot

966

00:45:50,170 --> 00:45:48,049

preparations Ares week to week I mean it

967

00:45:53,170 --> 00:45:50,180

definitely depends on which story I've

968

00:45:54,880 --> 00:45:53,180

chosen to report on usually what happens

969

00:45:56,769 --> 00:45:54,890

is that will record the show on a

970

00:45:58,029 --> 00:45:56,779

Wednesday night it's later in

971

00:46:00,789 --> 00:45:58,039

Connecticut there are three hours ahead

972

00:46:02,079 --> 00:46:00,799

of me in LA so I record it I think four

973

00:46:04,660 --> 00:46:02,089

thirty in the afternoon for them at

974

00:46:06,099 --> 00:46:04,670

seven thirty wrap up by dinner time for

975

00:46:09,130 --> 00:46:06,109

me wrap up but the time they're ready to

976

00:46:11,499 --> 00:46:09,140

go to bed I'd say about on Monday I will

977

00:46:13,420 --> 00:46:11,509

usually send an email to Steve with some

978

00:46:15,249 --> 00:46:13,430

itches with some story ideas that I've

979

00:46:19,630 --> 00:46:15,259

come across and some words that I think

980

00:46:21,789 --> 00:46:19,640

could be good Steve will either you know

981

00:46:23,199 --> 00:46:21,799

just approve or he'll delegate and say

982

00:46:24,969 --> 00:46:23,209

oh you know so and so it might be better

983

00:46:26,699 --> 00:46:24,979

doing that story or so and so already

984

00:46:30,609 --> 00:46:26,709

pitched that so why don't we try this

985

00:46:33,279 --> 00:46:30,619

and usually I know what I'm going to do

986

00:46:36,479 --> 00:46:33,289

by late Monday or early Tuesday hmm

987

00:46:39,999 --> 00:46:36,489

probably take maybe again it depends but

988

00:46:42,219 --> 00:46:40,009

on the light end an hour on the heavy

989

00:46:45,009 --> 00:46:42,229

end you know a few hours depending on if

990

00:46:46,779 --> 00:46:45,019

it's a really difficult scientific study

991

00:46:49,449 --> 00:46:46,789

that I have to dig through and make

992

00:46:51,400 --> 00:46:49,459

sense of what amazes me though is that

993

00:46:53,079 --> 00:46:51,410

there will be times where it is

994

00:46:55,809 --> 00:46:53,089

complicated so I spending much more time

995

00:46:58,299 --> 00:46:55,819

than usual on it and yet Steve who

996

00:47:00,370 --> 00:46:58,309

probably just like glanced at it will

997

00:47:02,229 --> 00:47:00,380

point things out that i missed like oh

998

00:47:04,089 --> 00:47:02,239

yeah but the study actually a focused on

999

00:47:05,919 --> 00:47:04,099

his blah blah blah and the you know the

1000

00:47:09,429 --> 00:47:05,929

sample size was only and I'm like Steve

1001
00:47:11,499 --> 00:47:09,439
like how do you how do you do that he

1002
00:47:14,140 --> 00:47:11,509
just absorbs things like a sponge it's

1003
00:47:17,199 --> 00:47:14,150
really impressive yeah yeah now we are

1004
00:47:18,910 --> 00:47:17,209
at QED we r which is just wonderful is

1005
00:47:21,099 --> 00:47:18,920
so exciting and I'm awake right now

1006
00:47:23,079 --> 00:47:21,109
which I'm very impressed with myself the

1007
00:47:25,829 --> 00:47:23,089
day I got here I slept I just lost

1008
00:47:28,329 --> 00:47:25,839
consciousness immediately also the next

1009
00:47:31,470 --> 00:47:28,339
I'm glad to be on a schedule um

1010
00:47:35,340 --> 00:47:31,480
Manchester is beautiful it's really nice

1011
00:47:37,290 --> 00:47:35,350
it rains here yeah that's not a thing in

1012
00:47:39,180 --> 00:47:37,300
LA it's actually quite welcome for me I

1013
00:47:40,920 --> 00:47:39,190

enjoy the rain a lot it's also a bit

1014

00:47:43,890 --> 00:47:40,930

cold at the moment it's but I like that

1015

00:47:46,320 --> 00:47:43,900

your wants 72andsunny I shouldn't

1016

00:47:48,660 --> 00:47:46,330

complain I live in the best part of the

1017

00:47:50,460 --> 00:47:48,670

world I think but there are people who

1018

00:47:52,650 --> 00:47:50,470

go crazy when they come to LA because

1019

00:47:56,040 --> 00:47:52,660

there are no seasons so it's nice to

1020

00:47:58,380 --> 00:47:56,050

visit places the season actually

1021

00:48:00,630 --> 00:47:58,390

Manchester is the same it also has like

1022

00:48:03,060 --> 00:48:00,640

people always complain about lanchester

1023

00:48:04,980 --> 00:48:03,070

raining a lot um it's not actually true

1024

00:48:08,849 --> 00:48:04,990

it only rains here about seven months of

1025

00:48:13,230 --> 00:48:08,859

the year just knows the other five I

1026
00:48:14,820 --> 00:48:13,240
used to live here you know yeah you're

1027
00:48:16,560 --> 00:48:14,830
getting you're giving a talk here

1028
00:48:19,140 --> 00:48:16,570
tomorrow yeah I'm giving a talk tomorrow

1029
00:48:21,480 --> 00:48:19,150
and I'm doing a live quote unquote as in

1030
00:48:23,460 --> 00:48:21,490
life for the audience but recorded and

1031
00:48:25,170 --> 00:48:23,470
then I'll air later on top nerdy where

1032
00:48:27,720 --> 00:48:25,180
I'm interviewing sue Blackmore so that

1033
00:48:28,950 --> 00:48:27,730
should be really fun um and then i'll do

1034
00:48:32,070 --> 00:48:28,960
some other recordings behind the scenes

1035
00:48:34,620 --> 00:48:32,080
in there and the toll uh i think i just

1036
00:48:36,690 --> 00:48:34,630
finished it I did turn in a flash drive

1037
00:48:40,380 --> 00:48:36,700
with some photos I slap together in a

1038
00:48:41,730 --> 00:48:40,390

keynote we will see um I'm I realized

1039

00:48:43,050 --> 00:48:41,740

when I was looking back over it I was

1040

00:48:46,770 --> 00:48:43,060

like it was kind of just a lot of

1041

00:48:48,630 --> 00:48:46,780

pictures of myself Jordan wasn't you

1042

00:48:50,220 --> 00:48:48,640

talk about well I thought a good part

1043

00:48:52,260 --> 00:48:50,230

would be to introduce myself to the

1044

00:48:55,590 --> 00:48:52,270

skeptic community here in England and so

1045

00:48:57,480 --> 00:48:55,600

I did want to make sure that I didn't

1046

00:48:58,650 --> 00:48:57,490

just start talking about things with no

1047

00:49:00,870 --> 00:48:58,660

context and they're like who is this

1048

00:49:04,140 --> 00:49:00,880

broad you know so I start by introducing

1049

00:49:05,310 --> 00:49:04,150

who i am what i do and kind of the

1050

00:49:08,490 --> 00:49:05,320

concept of a science communicator

1051
00:49:12,060 --> 00:49:08,500
because i think for some people that's a

1052
00:49:14,640 --> 00:49:12,070
weird career and maybe they don't fully

1053
00:49:16,140 --> 00:49:14,650
understand what it entails and then I

1054
00:49:17,490 --> 00:49:16,150
talk a little bit about the American

1055
00:49:19,300 --> 00:49:17,500
media landscape and some of the

1056
00:49:20,800 --> 00:49:19,310
struggles and the uphill

1057
00:49:23,650 --> 00:49:20,810
battles that we fight trying to get good

1058
00:49:26,410 --> 00:49:23,660
science programming on air there and

1059
00:49:28,210 --> 00:49:26,420
then some of the kind of tricks of the

1060
00:49:30,670 --> 00:49:28,220
trade of how to do proper science

1061
00:49:32,590 --> 00:49:30,680
communication I tend to try to keep my

1062
00:49:34,540 --> 00:49:32,600
talks on the short end you know if I'm

1063
00:49:36,070 --> 00:49:34,550

allocated an hour for a talk I try to

1064

00:49:38,770 --> 00:49:36,080

when we talk for 30 or 40 minutes

1065

00:49:42,190 --> 00:49:38,780

because I think that the best content

1066

00:49:43,630 --> 00:49:42,200

comes in the QA and so a lot of times I

1067

00:49:45,130 --> 00:49:43,640

kind of want the audience to guide how

1068

00:49:47,710 --> 00:49:45,140

that I don't like talking at people I

1069

00:49:50,560 --> 00:49:47,720

like communicating with people so we'll

1070

00:49:52,300 --> 00:49:50,570

see how that goes now one last thing um

1071

00:49:54,310 --> 00:49:52,310

you've been to us right here before I

1072

00:49:56,260 --> 00:49:54,320

happen but not to see me I know it's not

1073

00:49:58,780 --> 00:49:56,270

weird i flew out of Sydney but I didn't

1074

00:50:00,220 --> 00:49:58,790

actually go to write later granted okay

1075

00:50:03,450 --> 00:50:00,230

every What's Wrong k I've been to so

1076

00:50:07,600 --> 00:50:03,460

many airports um yeah I've been to

1077

00:50:11,950 --> 00:50:07,610

Brisbane Melbourne Melbourne I do right

1078

00:50:15,670 --> 00:50:11,960

melbourne heaven m minden haha adelaide

1079

00:50:18,100 --> 00:50:15,680

and perth and i loved a delayed at least

1080

00:50:19,570 --> 00:50:18,110

money so it is a beautiful city yeah

1081

00:50:22,030 --> 00:50:19,580

they don't have power there now they're

1082

00:50:25,540 --> 00:50:22,040

they're all like you everyone um they

1083

00:50:28,330 --> 00:50:25,550

just live in huts and erics it didn't

1084

00:50:31,770 --> 00:50:28,340

change the joke that are suitable it was

1085

00:50:34,510 --> 00:50:31,780

recently a strong and in the storm 30

1086

00:50:36,970 --> 00:50:34,520

high voltage power pylons pylons

1087

00:50:38,590 --> 00:50:36,980

actually toppled in the entire state

1088

00:50:39,930 --> 00:50:38,600

yeah the entire this state South

1089

00:50:43,090 --> 00:50:39,940

Australia do not have their own

1090

00:50:47,080 --> 00:50:43,100

electrical producing capabilities

1091

00:50:49,270 --> 00:50:47,090

they're basically off the grid for are

1092

00:50:51,130 --> 00:50:49,280

they ok now well they're not the cooking

1093

00:50:54,370 --> 00:50:51,140

over open fires and stuff like that but

1094

00:50:57,730 --> 00:50:54,380

otherwise I think no burning trash

1095

00:50:59,800 --> 00:50:57,740

because it's repeated depicted in movies

1096

00:51:02,110 --> 00:50:59,810

like it's anarchy people are burning

1097

00:51:03,430 --> 00:51:02,120

trash ins breathe yeah I think people

1098

00:51:06,910 --> 00:51:03,440

must be worried that they can charge

1099

00:51:08,380 --> 00:51:06,920

their phones but i'll tell you in my and

1100

00:51:10,810 --> 00:51:08,390

i hope i'm remembering correctly but

1101
00:51:13,330 --> 00:51:10,820
adelaide when i was there there's this

1102
00:51:15,670 --> 00:51:13,340
like little river that kind of goes

1103
00:51:18,010 --> 00:51:15,680
through and we rode rowboat so the

1104
00:51:20,080 --> 00:51:18,020
rivers like so adorable and it's such a

1105
00:51:22,420 --> 00:51:20,090
good time but i loved all of the towns

1106
00:51:24,520 --> 00:51:22,430
that i visited you know I find that

1107
00:51:27,850 --> 00:51:24,530
Australia is not that different from

1108
00:51:29,110 --> 00:51:27,860
where I grew up in Texas I really think

1109
00:51:30,050 --> 00:51:29,120
Australia in Texas have a lot of

1110
00:51:34,570 --> 00:51:30,060
similarity

1111
00:51:38,170 --> 00:51:34,580
was not meant to offend here's why

1112
00:51:43,310 --> 00:51:38,180
there's a big kind of blue collar

1113
00:51:45,050 --> 00:51:43,320

engineering oil gas geology area in

1114

00:51:47,990 --> 00:51:45,060

Australia right especially in like birth

1115

00:51:50,690 --> 00:51:48,000

that's a place where you see a lot of

1116

00:51:52,460 --> 00:51:50,700

similarities in the education and the

1117

00:51:55,310 --> 00:51:52,470

the jobs if the people who work there

1118

00:51:57,860 --> 00:51:55,320

very similar to texas in that way i find

1119

00:52:00,110 --> 00:51:57,870

that the sensibilities the way that

1120

00:52:03,110 --> 00:52:00,120

people eat is very similar to texas and

1121

00:52:05,860 --> 00:52:03,120

it's so friendly a lot of times when you

1122

00:52:07,700 --> 00:52:05,870

go to a country that you're not from

1123

00:52:09,380 --> 00:52:07,710

there's a lot of things you have to

1124

00:52:10,940 --> 00:52:09,390

adjust to right especially if it's a

1125

00:52:12,290 --> 00:52:10,950

place where they don't speak the

1126
00:52:13,910 --> 00:52:12,300
language that you speak it's much easier

1127
00:52:15,710 --> 00:52:13,920
coming to England or Australia because

1128
00:52:17,720 --> 00:52:15,720
if they speak English sometimes it

1129
00:52:20,690 --> 00:52:17,730
doesn't seem like it but you still don't

1130
00:52:22,790 --> 00:52:20,700
understand what anybody's saying but

1131
00:52:24,610 --> 00:52:22,800
there's still these big cultural

1132
00:52:27,950 --> 00:52:24,620
differences in the way that people

1133
00:52:29,420 --> 00:52:27,960
communicate and interact I found that

1134
00:52:31,910 --> 00:52:29,430
when I went to Australia it felt like I

1135
00:52:33,830 --> 00:52:31,920
went home to Texas people were just very

1136
00:52:38,060 --> 00:52:33,840
friendly very familiar and there was a

1137
00:52:41,080 --> 00:52:38,070
neighborly aspect that um I don't get

1138
00:52:44,060 --> 00:52:41,090

when I don't always get one to travel

1139

00:52:46,400 --> 00:52:44,070

when we met in new york in may i

1140

00:52:48,530 --> 00:52:46,410

mentioned you mentioned that you hadn't

1141

00:52:50,690 --> 00:52:48,540

been to Sydney and what I said was that

1142

00:52:52,520 --> 00:52:50,700

you know you stick around with es tu for

1143

00:52:54,410 --> 00:52:52,530

long enough yeah and you will an

1144

00:52:56,810 --> 00:52:54,420

alchemist writer so we're still working

1145

00:52:58,070 --> 00:52:56,820

on we'll see oh you only do how much fun

1146

00:53:02,300 --> 00:52:58,080

it would be to travel with those guys to

1147

00:53:03,830 --> 00:53:02,310

Australia oh yeah you do know um just so

1148

00:53:05,030 --> 00:53:03,840

long as it's so the last time I went to

1149

00:53:09,020 --> 00:53:05,040

Australia the only time I've been to

1150

00:53:11,630 --> 00:53:09,030

Australia I got to hug a koala and I got

1151
00:53:13,280 --> 00:53:11,640
to snuggle with a wombat which smelled

1152
00:53:14,870 --> 00:53:13,290
really bad but was so cute and I've

1153
00:53:18,650 --> 00:53:14,880
wanted to do that again could i do what

1154
00:53:20,570 --> 00:53:18,660
do I need rubbers people tell me Derek

1155
00:53:23,060 --> 00:53:20,580
tells me about these damn drop bears and

1156
00:53:25,760 --> 00:53:23,070
my friend Casey who's also australia

1157
00:53:27,980 --> 00:53:25,770
australian friend um is that that's a

1158
00:53:31,890 --> 00:53:27,990
fake thing that you guys make up to meza

1159
00:53:36,299 --> 00:53:31,900
torrents it's okay you all tell me about

1160
00:53:41,700 --> 00:53:36,309
draw us give a hunger for American blood

1161
00:53:43,890 --> 00:53:41,710
or something fun I don't believe you I'm

1162
00:53:46,950 --> 00:53:43,900
trying not to be as gullible as I'm not

1163
00:53:51,539 --> 00:53:46,960

saying can you be a good skeptic are you

1164

00:53:53,640 --> 00:53:51,549

okay you know I take with you aha but I

1165

00:53:55,140 --> 00:53:53,650

do I would love to come back I would

1166

00:53:57,750 --> 00:53:55,150

love to see Sydney I know it's like you

1167

00:53:59,490 --> 00:53:57,760

know more metropolitan city it's a where

1168

00:54:02,039 --> 00:53:59,500

most of my friends that are Australian

1169

00:54:03,720 --> 00:54:02,049

are from or at least lived most the

1170

00:54:06,029 --> 00:54:03,730

majority of their lives and I would love

1171

00:54:09,620 --> 00:54:06,039

to see what all the hubbub is about and

1172

00:54:14,039 --> 00:54:09,630

eat some brekkie yes directly together

1173

00:54:16,079 --> 00:54:14,049

okay so yeah so do you know you looked

1174

00:54:17,460 --> 00:54:16,089

about now no you mentioned it and I

1175

00:54:19,730 --> 00:54:17,470

still don't every time you say and I

1176

00:54:24,809 --> 00:54:19,740

still think you're saying fared income

1177

00:54:27,450 --> 00:54:24,819

what we look good okay symptom fair

1178

00:54:29,339 --> 00:54:27,460

dinkum fair dinkum choice on Australian

1179

00:54:39,680 --> 00:54:29,349

is is that dirty but I just thought no

1180

00:54:46,700 --> 00:54:44,190

miss November National Geographic live

1181

00:54:50,760 --> 00:54:46,710

will take you

1182

00:54:54,030 --> 00:54:50,770

Tomas we're attempting something on

1183

00:54:56,220 --> 00:54:54,040

parallel in space flight the minds who

1184

00:55:00,060 --> 00:54:56,230

will take us there in this never to be

1185

00:55:04,200 --> 00:55:00,070

repeated live experience the biggest

1186

00:55:07,200 --> 00:55:04,210

thing for Humanity is to go to Mars

1187

00:55:09,510 --> 00:55:07,210

Apollo legend Buzz Aldrin joins the

1188

00:55:13,110 --> 00:55:09,520

world's leading authorities live on

1189

00:55:17,190 --> 00:55:13,120

stage 2 ramone sydney and canberra this

1190

00:55:19,140 --> 00:55:17,200

november with hosts ray martin featuring

1191

00:55:22,590 --> 00:55:19,150

stunning images from global space

1192

00:55:24,870 --> 00:55:22,600

agencies and spectacular imagery from

1193

00:55:27,640 --> 00:55:24,880

national Geographics groundbreaking new

1194

00:55:30,010 --> 00:55:27,650

series Mars

1195

00:55:33,160 --> 00:55:30,020

vision control we're looking at a red

1196

00:55:34,840 --> 00:55:33,170

planet tickets on sale now with VIP

1197

00:55:37,240 --> 00:55:34,850

packages available to attend the

1198

00:55:40,400 --> 00:55:37,250

exclusive pre-show cocktail reception

1199

00:55:53,780 --> 00:55:42,860

come on an exciting journey to our new

1200

00:55:55,880 --> 00:55:53,790

home Mars the live experience Mars the

1201
00:55:58,940 --> 00:55:55,890
live experience fourth of November

1202
00:56:01,490 --> 00:55:58,950
Melbourne Town Hall sixth of November

1203
00:56:04,340 --> 00:56:01,500
horn pavilion Sydney and the seventh of

1204
00:56:07,040 --> 00:56:04,350
november Llewellyn hall in Canberra for

1205
00:56:09,530 --> 00:56:07,050
your tickets just Google Mars the live

1206
00:56:26,800 --> 00:56:09,540
experience or follow the link on this

1207
00:56:32,840 --> 00:56:29,480
thank you for listening to the skeptic

1208
00:56:35,060 --> 00:56:32,850
zone next week more more from QED in

1209
00:56:37,040 --> 00:56:35,070
Manchester with their answer give and I

1210
00:56:38,690 --> 00:56:37,050
think it's a bit of a doctor car special

1211
00:56:42,500 --> 00:56:38,700
will be playing Iran's interview with

1212
00:56:47,120 --> 00:56:42,510
dr. Carl and also an interview or a

1213
00:56:52,130 --> 00:56:47,130

session dr. Kyle did with Maynard in the

1214

00:56:55,900 --> 00:56:52,140

early 90s I think about nineteen ninety

1215

00:56:58,940 --> 00:56:55,910

one or so a quarter of a century ago

1216

00:57:01,340 --> 00:56:58,950

it's ridiculous and main arden dr. carl

1217

00:57:03,380 --> 00:57:01,350

is still in the media doing all sorts of

1218

00:57:05,300 --> 00:57:03,390

wonderful things that's longevity for

1219

00:57:07,550 --> 00:57:05,310

you folks look out for that on next

1220

00:57:09,500 --> 00:57:07,560

week's show and don't forget you can

1221

00:57:12,020 --> 00:57:09,510

still buy your tickets to the Australian

1222

00:57:14,540 --> 00:57:12,030

skeptics National Convention I in

1223

00:57:18,050 --> 00:57:14,550

melbourne from the 25th to the 27th of

1224

00:57:21,620 --> 00:57:18,060

november convention skeptics com delay

1225

00:57:23,360 --> 00:57:21,630

you is the website to head for those of

1226

00:57:25,550 --> 00:57:23,370

you in New Zealand of course there's the

1227

00:57:28,340 --> 00:57:25,560

New Zealand skeptics conference and I

1228

00:57:31,850 --> 00:57:28,350

will see you there conference dot

1229

00:57:35,180 --> 00:57:31,860

skeptics n Z and that'll be early

1230

00:57:38,930 --> 00:57:35,190

December and in late breaking news I'm

1231

00:57:42,410 --> 00:57:38,940

trying to line up a talk I will be

1232

00:57:46,310 --> 00:57:42,420

giving hopefully in berkeley in berkeley

1233

00:57:48,860 --> 00:57:46,320

california sometime around late december

1234

00:57:52,610 --> 00:57:48,870

i will keep you posted those people in

1235

00:57:56,540 --> 00:57:52,620

the San Francisco Bay Area seeing if we

1236

00:57:59,330 --> 00:57:56,550

can figure out a talk I can give at some

1237

00:58:02,150 --> 00:57:59,340

location or other in lateish December

1238

00:58:04,280 --> 00:58:02,160

that'll be fun maybe I can talk about

1239

00:58:07,250 --> 00:58:04,290

deadly Australian animals like Heidi

1240

00:58:08,960 --> 00:58:07,260

Robertson did last week on the show now

1241

00:58:11,330 --> 00:58:08,970

you'll remember a couple of weeks ago we

1242

00:58:12,980 --> 00:58:11,340

played the skeptic zone live from Sydney

1243

00:58:17,270 --> 00:58:12,990

skeptics in the pub was a great success

1244

00:58:19,250 --> 00:58:17,280

and everybody who came along I think

1245

00:58:21,800 --> 00:58:19,260

they all agreed the pub was a fantastic

1246

00:58:23,930 --> 00:58:21,810

venue it's a new pub for us it's just

1247

00:58:27,050 --> 00:58:23,940

near when you'd station the Occidental

1248

00:58:30,080 --> 00:58:27,060

hotel well the next skeptics in the pub

1249

00:58:32,960 --> 00:58:30,090

is thursday the third of november from

1250

00:58:36,740 --> 00:58:32,970

6pm at the Occidental hotel which is 43

1251
00:58:38,420 --> 00:58:36,750
York Street as I say just behind or just

1252
00:58:41,540 --> 00:58:38,430
near winyan station

1253
00:58:45,849 --> 00:58:41,550
and this time we're going to be talking

1254
00:58:49,280 --> 00:58:45,859
about nigerian the famous nigerian scams

1255
00:58:50,720 --> 00:58:49,290
for more information and to register you

1256
00:58:53,030 --> 00:58:50,730
don't have to register you can just turn

1257
00:58:55,700 --> 00:58:53,040
up we'd love it if you just just show up

1258
00:59:00,410 --> 00:58:55,710
that's that's fine but if you register

1259
00:59:04,130 --> 00:59:00,420
at meetup.com day you /a ust skeptics

1260
00:59:08,510 --> 00:59:04,140
aust skeptics are all the better and we

1261
00:59:11,660 --> 00:59:08,520
can see who's coming and possibly make

1262
00:59:14,240 --> 00:59:11,670
make sure there's enough room and it's a

1263
00:59:17,690 --> 00:59:14,250

good way for you once you join that to

1264

00:59:19,940 --> 00:59:17,700

be kept up to date with future talks and

1265

00:59:23,030 --> 00:59:19,950

things and conventions and skeptics in

1266

00:59:25,880 --> 00:59:23,040

the pub's meetup com delay you / aust

1267

00:59:28,940 --> 00:59:25,890

skeptics and a link of course in this

1268

00:59:31,190 --> 00:59:28,950

week's show note and before I go a big

1269

00:59:36,170 --> 00:59:31,200

good luck shout out to Maynard who's

1270

00:59:39,640 --> 00:59:36,180

just about to as I record this podcast

1271

00:59:43,839 --> 00:59:39,650

he's probably at sydney airport on the

1272

00:59:46,910 --> 00:59:43,849

first leg of the vengaboys to her he's

1273

00:59:48,859 --> 00:59:46,920

the host of the vengaboys tour for the

1274

00:59:51,170 --> 00:59:48,869

next two weeks I think of something like

1275

00:59:53,750 --> 00:59:51,180

that good luck may not maybe we can

1276

00:59:55,760 --> 00:59:53,760

maybe we can get a report from maenad on

1277

00:59:58,730 --> 00:59:55,770

the road along the way we'll see good

1278

01:00:01,549 --> 00:59:58,740

luck may not but for this week this is

1279

01:00:07,910 --> 01:00:01,559

Richard Saunders signing off from Sydney

1280

01:00:10,400 --> 01:00:07,920

Australia you've been listening to the

1281

01:00:14,240 --> 01:00:10,410

skeptics own podcast visit our website

1282

01:00:17,599 --> 01:00:14,250

at wwc a petting zoo TV for contacts an

1283

01:00:20,690 --> 01:00:17,609

archive of all episodes since 2008 and

1284

01:00:22,760 --> 01:00:20,700

our online store please support the

1285

01:00:26,120 --> 01:00:22,770

skeptic zone by following us on twitter

1286

01:00:29,630 --> 01:00:26,130

at skeptic zone liking us on facebook

1287

01:00:31,130 --> 01:00:29,640

and leaving a review on iTunes you can

1288

01:00:34,970 --> 01:00:31,140

also show your support by subscribing

1289

01:00:38,000 --> 01:00:34,980

via paypal for as little as 99 cents a

1290

01:00:38,670 --> 01:00:38,010

week the skeptic zone is an independent

1291

01:00:40,800 --> 01:00:38,680

production

1292

01:00:42,870 --> 01:00:40,810

the views and opinions expressed on the

1293

01:00:45,560 --> 01:00:42,880

skeptic zone and not necessarily those