

Episode **574**

THE SKEPTIC ZONE PODCAST

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13 October 2019

The Skeptic Zone Podcast



Episode **574** - 13 October 2019

CHOICE Shonkys

Trish Hann talks
Stroke Treatment

GSoW Updates

Dr Fiona Fidler
for Skepticon 2019

The Skeptic Zone Podcast



Trish & Chips

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Dr Fiona Fidler

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Susan Gerbic

Episode **574** - 13 October 2019

with the goodness of 3 grain

1
00:00:06,230 --> 00:00:04,190
this week's episode of the skeptics own

2
00:00:09,770 --> 00:00:06,240
podcast is dedicated to the memory of

3
00:00:12,620 --> 00:00:09,780
Esther Tran Alden a strong advocate of

4
00:00:22,220 --> 00:00:12,630
reason in Sydney and a vaccination and

5
00:00:24,650 --> 00:00:22,230
of the science underpinning in welcome

6
00:00:27,140 --> 00:00:24,660
to the sceptic zone the podcast from

7
00:00:29,200 --> 00:00:27,150
Australia for science and reason

8
00:00:32,140 --> 00:00:29,210
[Music]

9
00:00:38,350 --> 00:00:32,150
[Applause]

10
00:00:40,910 --> 00:00:38,360
[Music]

11
00:00:45,020 --> 00:00:40,920
hello and welcome to the skeptic Zone

12
00:00:47,900 --> 00:00:45,030
podcast episode number 574 for the 13th

13
00:00:50,780 --> 00:00:47,910

of October 2019 reaches Saunders here

14

00:00:53,750 --> 00:00:50,790

with you from Sydney Australia coming up

15

00:00:57,799 --> 00:00:53,760

on this week's show the skeptic zone on

16

00:01:00,920 --> 00:00:57,809

the road we go to the offices of choice

17

00:01:02,689 --> 00:01:00,930

magazine the consumer advocate choice

18

00:01:04,729 --> 00:01:02,699

and the Australian skeptics have had a

19

00:01:06,820 --> 00:01:04,739

long and interesting relationship over

20

00:01:09,170 --> 00:01:06,830

the years sort of cross-pollination

21

00:01:11,420 --> 00:01:09,180

because you could say in a sort of a way

22

00:01:15,080 --> 00:01:11,430

choice magazine is sort of like the

23

00:01:17,630 --> 00:01:15,090

skeptics and they look out for dodgy and

24

00:01:18,920 --> 00:01:17,640

shonky and wonky products consumer

25

00:01:21,950 --> 00:01:18,930

products and they publish a magazine

26
00:01:23,990 --> 00:01:21,960
called choice and every year they award

27
00:01:25,520 --> 00:01:24,000
the shonky Awards which is kind of sort

28
00:01:28,930 --> 00:01:25,530
of like the Australian skeptics bent

29
00:01:32,960 --> 00:01:28,940
spoon award coming up actually in

30
00:01:35,630 --> 00:01:32,970
December anyway we head to the choice

31
00:01:38,120 --> 00:01:35,640
magazine presentation and find out more

32
00:01:39,620 --> 00:01:38,130
about this year's shonky and dodgy

33
00:01:41,809 --> 00:01:39,630
products that you should avoid

34
00:01:43,999 --> 00:01:41,819
after that it's Trish and chips with

35
00:01:46,180 --> 00:01:44,009
Trish Shan where Maynard interviews

36
00:01:49,120 --> 00:01:46,190
Trish about the latest developments in

37
00:01:52,880 --> 00:01:49,130
stroke treatment a bit of science

38
00:01:55,219 --> 00:01:52,890

injected into the sceptic zone then

39

00:01:58,070 --> 00:01:55,229

another update from susan gerbic from

40

00:01:59,660 --> 00:01:58,080

guerrilla skepticism on wikipedia just a

41

00:02:02,389 --> 00:01:59,670

quick update to see what's happening

42

00:02:06,320 --> 00:02:02,399

there and around off the show i chat to

43

00:02:09,199 --> 00:02:06,330

dr. Fiona fiddler from the University of

44

00:02:13,040 --> 00:02:09,209

Melbourne who scientifically

45

00:02:16,900 --> 00:02:13,050

investigates science and she'll be

46

00:02:19,010 --> 00:02:16,910

talking at skeptic on 2019 in December

47

00:02:21,290 --> 00:02:19,020

actually there's not too much for me to

48

00:02:25,280 --> 00:02:21,300

say here at the introduction to the show

49

00:02:30,470 --> 00:02:25,290

this week so yes it's time for me to run

50

00:02:33,260 --> 00:02:30,480

downstairs where there's cats oh she's

51
00:02:35,210 --> 00:02:33,270
gone see the trouble is I'm recording

52
00:02:37,550 --> 00:02:35,220
this in the morning and they're sitting

53
00:02:40,210 --> 00:02:37,560
in here waiting for me to get up run

54
00:02:42,520 --> 00:02:40,220
downstairs and give them some food

55
00:02:44,440 --> 00:02:42,530
mm-hmm okay when I run downstairs and

56
00:02:46,750 --> 00:02:44,450
give the cats their food their breakfast

57
00:02:55,020 --> 00:02:46,760
I hope you enjoy the skeptic sir

58
00:02:57,870 --> 00:02:55,030
[Music]

59
00:03:14,090 --> 00:02:57,880
[Applause]

60
00:03:17,120 --> 00:03:14,100
[Music]

61
00:03:19,880 --> 00:03:17,130
Thursday the 10th of October 2019

62
00:03:25,780 --> 00:03:19,890
so the awarding of the annual shonky

63
00:03:29,600 --> 00:03:28,100

choice magazine in the Australian

64

00:03:32,900 --> 00:03:29,610

skeptics have had a long and happy

65

00:03:35,650 --> 00:03:32,910

Association in 2010 choice magazine

66

00:03:38,660 --> 00:03:35,660

awarded a shonky to the Power Balance

67

00:03:43,370 --> 00:03:38,670

wristband a product the Australian

68

00:03:46,440 --> 00:03:43,380

skeptics had debunked in 2009

69

00:03:49,230 --> 00:03:46,450

[Music]

70

00:03:51,490 --> 00:03:49,240

the press release reads as follows

71

00:03:54,070 --> 00:03:51,500

consumer advocate choice has announced

72

00:03:56,860 --> 00:03:54,080

its 14th annual shock ease singling out

73

00:04:00,610 --> 00:03:56,870

chunky fringes food and finance products

74

00:04:02,290 --> 00:04:00,620

for its yearly dishonor choices job is

75

00:04:05,530 --> 00:04:02,300

to stand up against companies doing the

76
00:04:07,930 --> 00:04:05,540
wrong thing the Shan Keys draw upon our

77
00:04:10,210 --> 00:04:07,940
unique testing reviews and advocacy to

78
00:04:13,420 --> 00:04:10,220
help you identify the worst of the worst

79
00:04:15,580 --> 00:04:13,430
in a time of fake reviews cash for

80
00:04:17,680 --> 00:04:15,590
comment salespeople and lobbyists

81
00:04:19,900 --> 00:04:17,690
everywhere it's more important than ever

82
00:04:24,440 --> 00:04:19,910
that independent voices tell the truth

83
00:04:29,660 --> 00:04:24,450
says choice CEO Allen Kirkland

84
00:04:33,470 --> 00:04:29,670
the 2019 chunkies are Kogan four dodgy

85
00:04:36,070 --> 00:04:33,480
customer care Medibank basic cover

86
00:04:39,620 --> 00:04:36,080
health insurance for failing the basics

87
00:04:42,380 --> 00:04:39,630
ikea ned killed fridge for failing

88
00:04:46,550 --> 00:04:42,390

energy tests and being bad at doing its

89

00:04:51,650 --> 00:04:46,560

one job a MP superannuation for ruined

90

00:04:54,080 --> 00:04:51,660

retirements freedom food Expo crunch for

91

00:04:57,590 --> 00:04:54,090

telling us a bag of sugar is healthy and

92

00:05:01,070 --> 00:04:57,600

the pet insurance bad insurance riddled

93

00:05:03,470 --> 00:05:01,080

with exclusions Tim men demand I went

94

00:05:05,540 --> 00:05:03,480

along to the shonky ceremony and spoke

95

00:05:09,110 --> 00:05:05,550

to some of the choice representatives

96

00:05:12,180 --> 00:05:09,120

about dodgy products

97

00:05:14,520 --> 00:05:12,190

[Music]

98

00:05:16,830 --> 00:05:14,530

we're in one of the testing labs here at

99

00:05:21,030 --> 00:05:16,840

choice magazine and they're having a

100

00:05:24,510 --> 00:05:21,040

test of the freedom foods X Oh crunch

101
00:05:26,280 --> 00:05:24,520
it's Chris Barnes from choices XO XO

102
00:05:27,840 --> 00:05:26,290
crunch yes basically you can see what's

103
00:05:30,240 --> 00:05:27,850
in front of you you can see the cereal

104
00:05:31,260 --> 00:05:30,250
and you can see a massive sugar and to

105
00:05:32,970 --> 00:05:31,270
be quite honest there's not a lot of

106
00:05:35,130 --> 00:05:32,980
difference between the two so yes that's

107
00:05:37,590 --> 00:05:35,140
right we've got the display here we've

108
00:05:40,830 --> 00:05:37,600
got the bowl of cereal ready to go

109
00:05:42,120 --> 00:05:40,840
looking very crunchy and a huge bowl of

110
00:05:44,220 --> 00:05:42,130
sugar we've got lots of kids here

111
00:05:48,930 --> 00:05:44,230
willing to test the product is that

112
00:05:52,290 --> 00:05:48,940
right okay and the idea is of course

113
00:05:54,690 --> 00:05:52,300

that this this thing is mostly um mostly

114

00:05:56,760 --> 00:05:54,700

sugar isn't it well not mostly sugar who

115

00:05:58,770 --> 00:05:56,770

do we have here hi my name is Linda I'm

116

00:06:00,660 --> 00:05:58,780

the food policy expert at choice and

117

00:06:03,000 --> 00:06:00,670

today we're awarding a strong key to

118

00:06:06,210 --> 00:06:03,010

freedom foods which positions itself as

119

00:06:09,600 --> 00:06:06,220

a nutritious healthy kids food but it's

120

00:06:12,030 --> 00:06:09,610

actually 22% added sugar that's a lot

121

00:06:14,040 --> 00:06:12,040

and as the display there shows but the

122

00:06:16,800 --> 00:06:14,050

the packaging is very kid-friendly isn't

123

00:06:18,900 --> 00:06:16,810

it this little owl and it looks very

124

00:06:21,000 --> 00:06:18,910

impeding and freedom food I mean how

125

00:06:23,580 --> 00:06:21,010

could you go wrong absolutely and all of

126

00:06:27,270 --> 00:06:23,590

the autumnal colors are very inviting

127

00:06:31,080 --> 00:06:27,280

we've got a lot of claims on the front

128

00:06:34,740 --> 00:06:31,090

like a fun and nutritious snack eat well

129

00:06:37,890 --> 00:06:34,750

today feel better tomorrow there's a lot

130

00:06:39,300 --> 00:06:37,900

of information that kind of could lead

131

00:06:42,060 --> 00:06:39,310

you to believe that it's a really

132

00:06:44,909 --> 00:06:42,070

nutritious food but unfortunately it is

133

00:06:47,190 --> 00:06:44,919

a quieter sugary cereal and we think

134

00:06:49,080 --> 00:06:47,200

that that's pretty misleading also just

135

00:06:50,610 --> 00:06:49,090

caught my eye here right on the top of

136

00:06:53,640 --> 00:06:50,620

the package we've got things that would

137

00:06:55,680 --> 00:06:53,650

appeal to a certain percentage of the

138

00:06:56,909 --> 00:06:55,690

the market they're gluten free wheat

139

00:06:59,520 --> 00:06:56,919

free and not free

140

00:07:01,050 --> 00:06:59,530

look those claims are do you need to be

141

00:07:04,470 --> 00:07:01,060

on the pack for people with allergies

142

00:07:07,380 --> 00:07:04,480

and intolerances I think that well

143

00:07:08,880 --> 00:07:07,390

that's really really relevant the sugary

144

00:07:10,560 --> 00:07:08,890

products should not be positioned at the

145

00:07:12,600 --> 00:07:10,570

health food section of the supermarket

146

00:07:14,190 --> 00:07:12,610

so a lot of the time you do find your

147

00:07:16,340 --> 00:07:14,200

gluten free or wheat free you're not

148

00:07:19,530 --> 00:07:16,350

free products in the health food section

149

00:07:22,800 --> 00:07:19,540

but it's easy to confuse a product that

150

00:07:25,800 --> 00:07:22,810

is free from those allergens with a

151

00:07:27,780 --> 00:07:25,810

product that you know is sugar

152

00:07:28,830 --> 00:07:27,790

and free from those allergies so we just

153

00:07:30,570 --> 00:07:28,840

want to make sure that there's no

154

00:07:32,070 --> 00:07:30,580

confusion there for consumers and of

155

00:07:33,840 --> 00:07:32,080

course it says their source of fiber

156

00:07:36,330 --> 00:07:33,850

with the goodness of three grains so

157

00:07:38,430 --> 00:07:36,340

it's all positive and this is really

158

00:07:40,260 --> 00:07:38,440

great for the kids in the morning that's

159

00:07:43,830 --> 00:07:40,270

right well it sounds it sounds too good

160

00:07:46,650 --> 00:07:43,840

to be true and it is so it says good for

161

00:07:48,840 --> 00:07:46,660

you no preservatives low salt low fat

162

00:07:51,900 --> 00:07:48,850

it's got everything even if no nasties

163

00:07:53,879 --> 00:07:51,910

no GMO I mean they're really going on

164

00:07:55,440 --> 00:07:53,889

every bandwagon they could possibly get

165

00:07:57,330 --> 00:07:55,450

on this package that's right the only

166

00:08:01,290 --> 00:07:57,340

thing that they're not advertising is

167

00:08:03,090 --> 00:08:01,300

they're high sugar content just back

168

00:08:05,010 --> 00:08:03,100

with a crisp on Z and use you're saying

169

00:08:07,560 --> 00:08:05,020

that in the last little while there's

170

00:08:09,870 --> 00:08:07,570

nothing like the good old Power Balance

171

00:08:12,330 --> 00:08:09,880

or magical claims come across the desk

172

00:08:14,460 --> 00:08:12,340

of choice that's right I mean look

173

00:08:16,290 --> 00:08:14,470

there's always garbage like that out

174

00:08:17,790 --> 00:08:16,300

there as you well know and we've looked

175

00:08:19,680 --> 00:08:17,800

at the power balance before the geo

176

00:08:21,990 --> 00:08:19,690

cleanse they're these sort of magic

177

00:08:23,550 --> 00:08:22,000

devices that claim to you know fix you

178

00:08:25,890 --> 00:08:23,560

or fix your house or fix your power

179

00:08:27,719 --> 00:08:25,900

consumption or whatever we haven't put a

180

00:08:29,820 --> 00:08:27,729

particular spotlight on anything like

181

00:08:32,159 --> 00:08:29,830

that just recently but they're always

182

00:08:33,930 --> 00:08:32,169

out there you know I'm sure your

183

00:08:35,520 --> 00:08:33,940

audience knows full well turtle look out

184

00:08:36,959 --> 00:08:35,530

for the moon like static you point at

185

00:08:37,950 --> 00:08:36,969

them and have a laugh but unfortunately

186

00:08:40,980 --> 00:08:37,960

there are people out there who believe

187

00:08:41,969 --> 00:08:40,990

them and buy them and yeah and yeah

188

00:08:44,250 --> 00:08:41,979

there's such ripoffs

189

00:08:46,020 --> 00:08:44,260

no absolutely yeah in fact you might be

190

00:08:47,790 --> 00:08:46,030

interested to know that just in the last

191

00:08:50,100 --> 00:08:47,800

week we've added to our bent spoon

192

00:08:52,470 --> 00:08:50,110

nominations for this year Aldi

193

00:08:55,230 --> 00:08:52,480

supermarkets for selling candles

194

00:08:57,120 --> 00:08:55,240

oh yes yes this just popped up on my

195

00:08:59,310 --> 00:08:57,130

radar just in the last couple of days

196

00:09:01,620 --> 00:08:59,320

look I had ear candles in there and it's

197

00:09:04,860 --> 00:09:01,630

it's disappointing isn't it here I've

198

00:09:06,660 --> 00:09:04,870

been waiting Aldys not to plug them over

199

00:09:09,540 --> 00:09:06,670

any anyone else put their yeah they're a

200

00:09:10,290 --> 00:09:09,550

good supermarket yeah they provide a

201
00:09:12,690 --> 00:09:10,300
really valuable

202
00:09:14,720 --> 00:09:12,700
you know service yeah with low-priced

203
00:09:17,070 --> 00:09:14,730
products and all the rest of it

204
00:09:20,040 --> 00:09:17,080
and lots of people shop there and you

205
00:09:22,380 --> 00:09:20,050
kind of expect it a company like that is

206
00:09:24,449 --> 00:09:22,390
going to have this sense just stay away

207
00:09:28,350 --> 00:09:24,459
from you know from nonsense like year

208
00:09:30,570 --> 00:09:28,360
candles yeah you know what would

209
00:09:33,560 --> 00:09:30,580
something like a brand of ear candles

210
00:09:36,259 --> 00:09:33,570
fall within Choice purview or is that

211
00:09:38,060 --> 00:09:36,269
I think we wouldn't look at a particular

212
00:09:40,340 --> 00:09:38,070
brand we would look at here candles as a

213
00:09:42,650 --> 00:09:40,350

whole if we saw that there was a

214

00:09:44,210 --> 00:09:42,660

particular activity in the market you

215

00:09:46,759 --> 00:09:44,220

know maybe someone was pushing something

216

00:09:49,340 --> 00:09:46,769

really hard or you know you were seeing

217

00:09:50,780 --> 00:09:49,350

in celebrity endorsements leaving

218

00:09:52,220 --> 00:09:50,790

putting a spotlight on particular

219

00:09:53,960 --> 00:09:52,230

products that then you might come to it

220

00:09:55,730 --> 00:09:53,970

yeah and the products like that are

221

00:09:58,400 --> 00:09:55,740

always out there unfortunately and you

222

00:10:01,749 --> 00:09:58,410

know and we have to spend our energy

223

00:10:04,759 --> 00:10:01,759

where it's yeah where it's best spent

224

00:10:06,259 --> 00:10:04,769

not always in that sort of area I know I

225

00:10:07,790 --> 00:10:06,269

agree I agree but one of the things

226

00:10:10,819 --> 00:10:07,800

that's concerned us for a while I mean

227

00:10:12,860 --> 00:10:10,829

it's bad enough to see them in Aldi but

228

00:10:14,809 --> 00:10:12,870

for years now they've been available in

229

00:10:17,509 --> 00:10:14,819

their pharmacies way exactly and you go

230

00:10:19,280 --> 00:10:17,519

to a pharmacy for medicine after all and

231

00:10:20,930 --> 00:10:19,290

you know and you know let's be honest my

232

00:10:22,490 --> 00:10:20,940

dad was a pharmacist so I know full well

233

00:10:25,430 --> 00:10:22,500

how far must operate the always thought

234

00:10:26,840 --> 00:10:25,440

you know chocolate stands yeah perfumes

235

00:10:28,069 --> 00:10:26,850

and all the rest of it yeah and that's

236

00:10:30,620 --> 00:10:28,079

one of the ways that they make a living

237

00:10:32,509 --> 00:10:30,630

and that's fair enough but you expect

238

00:10:35,780 --> 00:10:32,519

there to be you know what you went from

239

00:10:37,639 --> 00:10:35,790

medicinal and medical and you know

240

00:10:40,129 --> 00:10:37,649

pharmacological products you expect them

241

00:10:43,370 --> 00:10:40,139

to be all above the board and you know

242

00:10:45,319 --> 00:10:43,380

documented and proven and medically

243

00:10:47,509 --> 00:10:45,329

valid you know so dakotas at the same

244

00:10:49,550 --> 00:10:47,519

place where you you're buying you know

245

00:10:51,220 --> 00:10:49,560

serious medications and find the ear

246

00:10:53,090 --> 00:10:51,230

candles and things on the shelf as well

247

00:10:54,949 --> 00:10:53,100

naturally people are going to put trust

248

00:10:56,360 --> 00:10:54,959

in that I don't know if you've caught up

249

00:10:58,960 --> 00:10:56,370

with the fact that one of our sister

250

00:11:02,360 --> 00:10:58,970

organizations in the states is suing

251

00:11:04,939 --> 00:11:02,370

Walmart I think it is amongst others for

252

00:11:08,030 --> 00:11:04,949

selling homeopathy because homeopathy is

253

00:11:10,790 --> 00:11:08,040

such a blatant ripoff and something that

254

00:11:12,590 --> 00:11:10,800

blatantly doesn't work yeah it's an

255

00:11:15,680 --> 00:11:12,600

interesting tactic I know and well I

256

00:11:17,179 --> 00:11:15,690

mean again you go into pharmacies and

257

00:11:19,579 --> 00:11:17,189

see how many Pathak products as well I

258

00:11:20,990 --> 00:11:19,589

went for it myself here I bought a

259

00:11:24,199 --> 00:11:21,000

product that I thought was the real deal

260

00:11:25,670 --> 00:11:24,209

and Annika cream took it home read the

261

00:11:27,710 --> 00:11:25,680

label carefully and realized it was a

262

00:11:30,350 --> 00:11:27,720

homeopathic Arnica cream and you know in

263

00:11:33,319 --> 00:11:30,360

other words had you know zeros here or

264

00:11:36,710 --> 00:11:33,329

almost zero Annika actually in it which

265

00:11:38,179 --> 00:11:36,720

is a bit disappointing you know even

266

00:11:41,090 --> 00:11:38,189

someone like me who usually reads the

267

00:11:41,990 --> 00:11:41,100

labels can can fall for it I mean but

268

00:11:44,310 --> 00:11:42,000

there will be people out there who'll

269

00:11:46,530 --> 00:11:44,320

pick it up look oh homeopathy great

270

00:11:48,389 --> 00:11:46,540

that's supposed to be wonderful I'll get

271

00:11:49,920 --> 00:11:48,399

that because again you're buying it in a

272

00:11:52,410 --> 00:11:49,930

pharmacy you think that it's the real

273

00:11:53,970 --> 00:11:52,420

deal yes that's the problem of course of

274

00:11:55,199 --> 00:11:53,980

course the average punter in the street

275

00:11:57,269 --> 00:11:55,209

is going to think what they buy in a

276

00:11:59,040 --> 00:11:57,279

pharmacy is the real deal well we're

277

00:12:01,439 --> 00:11:59,050

still on the same page I think the the

278

00:12:04,199 --> 00:12:01,449

skeptic so video and choice magazine

279

00:12:06,509 --> 00:12:04,209

thank you for helping us out today

280

00:12:08,009 --> 00:12:06,519

having a look around I think Tim Mendham

281

00:12:10,490 --> 00:12:08,019

and I will pop around see a few more of

282

00:12:13,769 --> 00:12:10,500

these wonderful displays no worries

283

00:12:16,019 --> 00:12:13,779

we're in another section now and we have

284

00:12:17,970 --> 00:12:16,029

a gaping fridge in front of us and

285

00:12:19,829 --> 00:12:17,980

there's a problem with this fridge and

286

00:12:22,620 --> 00:12:19,839

this concerns us because it's to do with

287

00:12:23,160 --> 00:12:22,630

energy it's consuming more energy than

288

00:12:26,220 --> 00:12:23,170

it should

289

00:12:27,780 --> 00:12:26,230

it is indeed consuming more energy than

290

00:12:29,879 --> 00:12:27,790

it is allowed to it than it has claimed

291

00:12:32,490 --> 00:12:29,889

and that it is allowed to then is

292

00:12:33,930 --> 00:12:32,500

allowed to well from what they claimed

293

00:12:36,990 --> 00:12:33,940

there is a little bit of variation

294

00:12:39,150 --> 00:12:37,000

allowed but there's a limit on how much

295

00:12:41,009 --> 00:12:39,160

that variation can be so it can only be

296

00:12:43,410 --> 00:12:41,019

up to seven and a half percent more than

297

00:12:45,870 --> 00:12:43,420

they have claimed and this is well over

298

00:12:48,540 --> 00:12:45,880

8% right well I mean if enough people

299

00:12:51,210 --> 00:12:48,550

had these fridges it would it's just

300

00:12:52,920 --> 00:12:51,220

burning up energy that we and this day

301
00:12:54,180 --> 00:12:52,930
and age we simply don't need extra

302
00:12:56,550 --> 00:12:54,190
energy being burn up for no reason

303
00:12:59,009 --> 00:12:56,560
that's correct and that's why when the

304
00:13:02,100 --> 00:12:59,019
shonky I guess that and the fact that it

305
00:13:03,509 --> 00:13:02,110
is really a bad well let's have a closed

306
00:13:04,590 --> 00:13:03,519
look now I'm just walking over to the

307
00:13:06,569 --> 00:13:04,600
fridge now and there's the freezer

308
00:13:09,180 --> 00:13:06,579
section all the some pizzas inside I

309
00:13:11,850 --> 00:13:09,190
mean it looks like a fridge you know I

310
00:13:13,410 --> 00:13:11,860
mean from just outward appearances but

311
00:13:17,370 --> 00:13:13,420
how would appearances can be deceiving

312
00:13:18,540 --> 00:13:17,380
they certainly can be and that's one

313
00:13:19,949 --> 00:13:18,550

thing that's very important with the

314

00:13:23,970 --> 00:13:19,959

fridge is that it does a good job of

315

00:13:26,040 --> 00:13:23,980

keeping you food fresh now we've found

316

00:13:27,929 --> 00:13:26,050

with this fridge it performs so badly

317

00:13:29,550 --> 00:13:27,939

that not only you're going to be paying

318

00:13:31,379 --> 00:13:29,560

through the nose for the extra energy

319

00:13:33,929 --> 00:13:31,389

you're also going to be paying extra for

320

00:13:36,480 --> 00:13:33,939

replacing all the spoiled food in it oh

321

00:13:38,009 --> 00:13:36,490

and that's an ongoing cost for the life

322

00:13:39,420 --> 00:13:38,019

of the appliance that's interesting is

323

00:13:41,610 --> 00:13:39,430

that the seals or have you discovered

324

00:13:45,000 --> 00:13:41,620

exactly what's going on

325

00:13:47,900 --> 00:13:45,010

it's it just performs really badly right

326

00:13:50,250 --> 00:13:47,910

that's not the seals it's more about the

327

00:13:52,980 --> 00:13:50,260

large temperature fluctuations

328

00:13:55,890 --> 00:13:52,990

particularly in the freezer and poor

329

00:13:58,380 --> 00:13:55,900

response to changes in outside ambient

330

00:14:00,390 --> 00:13:58,390

temperature well folks I mean I like

331

00:14:02,460 --> 00:14:00,400

going to Ikea myself every now and then

332

00:14:03,840 --> 00:14:02,470

but I think I'll steer clear of this

333

00:14:10,130 --> 00:14:03,850

particular fridge thank you very much

334

00:14:15,270 --> 00:14:13,560

health-insurance Medibank we're in the

335

00:14:17,160 --> 00:14:15,280

room now to discuss the health insurance

336

00:14:18,960 --> 00:14:17,170

this is a big issue for us to Mendham

337

00:14:21,030 --> 00:14:18,970

from the Australian skeptics because we

338

00:14:24,300 --> 00:14:21,040

did a story not long ago you did a story

339

00:14:26,910 --> 00:14:24,310

about some of the quackery that health

340

00:14:28,770 --> 00:14:26,920

companies cover we're sort of supporting

341

00:14:30,420 --> 00:14:28,780

actually where this was before the the

342

00:14:32,820 --> 00:14:30,430

government action or is it in action at

343

00:14:35,040 --> 00:14:32,830

the moment that to restrict what the

344

00:14:36,690 --> 00:14:35,050

health funds can support so we found

345

00:14:38,040 --> 00:14:36,700

actually a major investigation a number

346

00:14:41,250 --> 00:14:38,050

of years ago that there was only one

347

00:14:43,710 --> 00:14:41,260

health fund that was not supporting whoo

348

00:14:44,880 --> 00:14:43,720

you know instead of unproven alternative

349

00:14:47,400 --> 00:14:44,890

medicine and that was the doctor self

350

00:14:48,450 --> 00:14:47,410

fund surprisingly but I mean so

351

00:14:50,730 --> 00:14:48,460

therefore was saying this sort of thing

352

00:14:52,410 --> 00:14:50,740

is aware even then when the actual

353

00:14:53,790 --> 00:14:52,420

product is not very good and the

354

00:14:55,020 --> 00:14:53,800

question is this was all about you know

355

00:14:57,900 --> 00:14:55,030

what they were supporting but this is a

356

00:14:58,380 --> 00:14:57,910

different issue wasn't it so who do we

357

00:15:01,710 --> 00:14:58,390

have here

358

00:15:03,810 --> 00:15:01,720

my name is Jodie Jodie and Dean and the

359

00:15:06,660 --> 00:15:03,820

story was or the story is that this

360

00:15:08,220 --> 00:15:06,670

Medibank this particular coverage

361

00:15:10,110 --> 00:15:08,230

they're offering really isn't worth a

362

00:15:12,090 --> 00:15:10,120

cracker is it yeah that's correct it's

363

00:15:13,320 --> 00:15:12,100

quite a basic level of cover and won't

364

00:15:15,630 --> 00:15:13,330

give you much more than what you get

365

00:15:17,070 --> 00:15:15,640

from the public system that's that's

366

00:15:19,590 --> 00:15:17,080

that's just frightening because I

367

00:15:22,020 --> 00:15:19,600

remember a 10 12 years ago we were all

368

00:15:24,000 --> 00:15:22,030

heavily encouraged to take up private

369

00:15:25,380 --> 00:15:24,010

insurance and the deadline is coming and

370

00:15:27,930 --> 00:15:25,390

you must take it up you must take it up

371

00:15:30,540 --> 00:15:27,940

and now that the news is that people are

372

00:15:31,980 --> 00:15:30,550

leaving it in droves yeah that's right a

373

00:15:33,480 --> 00:15:31,990

lot of people are loading in it because

374

00:15:35,910 --> 00:15:33,490

it becomes more expensive every year

375

00:15:37,160 --> 00:15:35,920

every year yeah yeah and what was one of

376

00:15:40,470 --> 00:15:37,170

the main problems with this particular

377

00:15:41,970 --> 00:15:40,480

coverage so this covers very little the

378

00:15:44,220 --> 00:15:41,980

list of exclusions is probably as long

379

00:15:46,290 --> 00:15:44,230

as my arm and it's also quite expensive

380

00:15:48,240 --> 00:15:46,300

when this is a basic level of cover

381

00:15:49,650 --> 00:15:48,250

there are actually cheaper policies

382

00:15:51,870 --> 00:15:49,660

available which are at the Bronze level

383

00:15:52,759 --> 00:15:51,880

which covers a lot more so not only does

384

00:15:55,220 --> 00:15:52,769

that cover very

385

00:15:56,689 --> 00:15:55,230

it also cost a lot right and I think

386

00:15:58,069 --> 00:15:56,699

some other people are finding if they

387

00:16:00,559 --> 00:15:58,079

just save their money in a separate

388

00:16:03,199 --> 00:16:00,569

account for medical reasons he can often

389

00:16:04,970 --> 00:16:03,209

often do better than that we've always

390

00:16:06,769 --> 00:16:04,980

got our eye and we're always had a

391

00:16:08,299 --> 00:16:06,779

problem with what we call the junk

392

00:16:10,729 --> 00:16:08,309

insurance policies which is what this

393

00:16:12,199 --> 00:16:10,739

policy is because essentially it doesn't

394

00:16:14,389 --> 00:16:12,209

provide any more cover than the public

395

00:16:15,829 --> 00:16:14,399

system so yeah yeah yeah that's one

396

00:16:17,929 --> 00:16:15,839

thing for our international listeners

397

00:16:20,869 --> 00:16:17,939

there is a quite a decent coverage of

398

00:16:22,999 --> 00:16:20,879

health in this country public health you

399

00:16:25,910 --> 00:16:23,009

know you can run up to a doctor and they

400

00:16:27,319 --> 00:16:25,920

like they hopefully fix you up without

401
00:16:30,319 --> 00:16:27,329
breaking the bank

402
00:16:33,949 --> 00:16:30,329
and and so this thing here is basically

403
00:16:36,199 --> 00:16:33,959
a ripoff to use that old term yeah

404
00:16:39,199 --> 00:16:36,209
basically okay well thank you very much

405
00:16:40,939 --> 00:16:39,209
thank you and we've come outside and

406
00:16:42,650 --> 00:16:40,949
there are dogs everywhere folks and

407
00:16:45,439 --> 00:16:42,660
they're looking quite healthy to me but

408
00:16:47,179 --> 00:16:45,449
but not all dogs are always healthy and

409
00:16:49,669 --> 00:16:47,189
who do we have here that's Patrick vary

410
00:16:51,619 --> 00:16:49,679
from choice and what's what's the point

411
00:16:53,479 --> 00:16:51,629
of all these dogs nipping at their heels

412
00:16:55,819 --> 00:16:53,489
yeah we've got dogs outside the choice

413
00:16:57,919 --> 00:16:55,829

office today because today rewarded the

414

00:17:00,289 --> 00:16:57,929

entire pet insurance industry a shonky

415

00:17:02,150 --> 00:17:00,299

award pet insurance products are

416

00:17:04,789 --> 00:17:02,160

terribly poor value and we've reviewed

417

00:17:09,409 --> 00:17:04,799

86 policies and can't recommend a single

418

00:17:11,510 --> 00:17:09,419

one wow that's something I mean I for

419

00:17:13,429 --> 00:17:11,520

the listeners know we've got a couple of

420

00:17:15,769 --> 00:17:13,439

skeptics owned cats and the skeptics own

421

00:17:17,569 --> 00:17:15,779

studio and I've cross my mind to get

422

00:17:19,370 --> 00:17:17,579

insurance for them because things happen

423

00:17:22,639 --> 00:17:19,380

but you're saying that it's really a

424

00:17:24,289 --> 00:17:22,649

waste of money absolutely we haven't we

425

00:17:26,389 --> 00:17:24,299

can't recommend a single product what we

426

00:17:28,039 --> 00:17:26,399

recommend to people actually is to have

427

00:17:29,750 --> 00:17:28,049

a pool of their own money and use that

428

00:17:31,580 --> 00:17:29,760

as an insurance product and rather than

429

00:17:34,010 --> 00:17:31,590

going through dodgy insurance providers

430

00:17:35,360 --> 00:17:34,020

yeah yeah we've there's a number of

431

00:17:37,789 --> 00:17:35,370

problems that we've found a lot of them

432

00:17:39,830 --> 00:17:37,799

is that the complex PDS product

433

00:17:43,570 --> 00:17:39,840

disclosure statements with terms that

434

00:17:46,030 --> 00:17:43,580

have really unfair across the board

435

00:17:48,190 --> 00:17:46,040

that's that's just that's too bad I mean

436

00:17:49,810 --> 00:17:48,200

because pet lovers love their pets and

437

00:17:55,470 --> 00:17:49,820

all right lo here's one and what do you

438

00:17:58,210 --> 00:17:55,480

think of the insurance hello hello Jason

439

00:18:00,220 --> 00:17:58,220

and that's a healthy dog pet lovers love

440

00:18:02,200 --> 00:18:00,230

their pets and of course they will do

441

00:18:04,000 --> 00:18:02,210

anything they'll spend lots of money if

442

00:18:06,160 --> 00:18:04,010

they think they're to help their pets

443

00:18:07,780 --> 00:18:06,170

they'll walk out for insurance right and

444

00:18:09,460 --> 00:18:07,790

the insurance companies really like prey

445

00:18:12,520 --> 00:18:09,470

on that emotional vulnerability and

446

00:18:14,230 --> 00:18:12,530

Australians love for pets and that's

447

00:18:15,970 --> 00:18:14,240

really how they work in terms of their

448

00:18:19,270 --> 00:18:15,980

marketing but an actual fact that is

449

00:18:22,360 --> 00:18:19,280

terribly poor value one such example is

450

00:18:24,310 --> 00:18:22,370

which is very hollow Matic is that if

451
00:18:26,800 --> 00:18:24,320
you for most pet insurance contracts

452
00:18:29,260 --> 00:18:26,810
if your pet contracts an illness for

453
00:18:31,210 --> 00:18:29,270
which a vaccine exists even though

454
00:18:34,360 --> 00:18:31,220
they're vaccinated they're not protected

455
00:18:37,570 --> 00:18:34,370
which seems particularly perverse what

456
00:18:39,790 --> 00:18:37,580
yeah I know it's very strange and

457
00:18:42,070 --> 00:18:39,800
there's other examples where if your pet

458
00:18:43,570 --> 00:18:42,080
has a pre-existing condition you can't

459
00:18:45,040 --> 00:18:43,580
then look across and find another pet

460
00:18:46,300 --> 00:18:45,050
insurance contract you're locked into

461
00:18:48,730 --> 00:18:46,310
that contracts

462
00:18:51,880 --> 00:18:48,740
it's very onerous now this whole thing

463
00:18:55,330 --> 00:18:51,890

Tim Mendham seems a bit rough to me ruff

464

00:18:57,580 --> 00:18:55,340

yes thank you thank you very much thank

465

00:18:59,560 --> 00:18:57,590

you thank you to all the doggies yes and

466

00:19:01,060 --> 00:18:59,570

the papers flying papers flying and

467

00:19:04,990 --> 00:19:01,070

we've got a sausage dog over there who's

468

00:19:05,790 --> 00:19:05,000

got a couple of hello are you a healthy

469

00:19:06,240 --> 00:19:05,800

dog

470

00:19:09,690 --> 00:19:06,250

[Music]

471

00:19:14,920 --> 00:19:09,700

[Laughter]

472

00:19:21,360 --> 00:19:17,050

or more information about choice

473

00:19:23,630 --> 00:19:21,370

magazine in the shonky Awards its www.hs

474

00:19:26,470 --> 00:19:23,640

calm day you

475

00:19:29,300 --> 00:19:26,480

[Music]

476
00:19:38,450 --> 00:19:29,310
[Laughter]

477
00:19:45,950 --> 00:19:41,860
[Music]

478
00:19:49,010 --> 00:19:45,960
dr. Harriet Hall MD no into thousands as

479
00:19:52,130 --> 00:19:49,020
the skeptic a retired family physician

480
00:19:54,169 --> 00:19:52,140
and former Air Force flight surgeon she

481
00:19:55,870 --> 00:19:54,179
writes about medicine so-called

482
00:19:59,770 --> 00:19:55,880
complementary and alternative medicine

483
00:20:02,840 --> 00:19:59,780
science pakery and critical thinking

484
00:20:05,120 --> 00:20:02,850
Harriet now has a free course a series

485
00:20:08,450 --> 00:20:05,130
of 10 video lectures on science-based

486
00:20:10,490 --> 00:20:08,460
medicine and alternative medicine the

487
00:20:12,590 --> 00:20:10,500
videos and an accompanying course guide

488
00:20:17,450 --> 00:20:12,600

can be found by following the link at

489

00:20:22,030 --> 00:20:17,460

skip doc info or by visiting web Randi's

490

00:20:25,780 --> 00:20:22,040

org slash educational - modules dot

491

00:20:28,040 --> 00:20:25,790

html' topics covered in the series our

492

00:20:29,330 --> 00:20:28,050

science-based medicine vs.

493

00:20:33,040 --> 00:20:29,340

evidence-based medicine

494

00:20:36,350 --> 00:20:33,050

what is cam chiropractic acupuncture

495

00:20:39,110 --> 00:20:36,360

homeopathy naturopathy and herbal

496

00:20:41,840 --> 00:20:39,120

medicine energy medicine miscellaneous

497

00:20:44,840 --> 00:20:41,850

alternatives pitfalls in research and

498

00:20:48,740 --> 00:20:44,850

science based medicine in the media and

499

00:20:51,169 --> 00:20:48,750

politics harriet covers each topic in a

500

00:20:54,440 --> 00:20:51,179

matter-of-fact no-nonsense way that

501
00:20:56,540 --> 00:20:54,450
shorter educate and entertain skeptic

502
00:21:07,730 --> 00:20:56,550
dot info

503
00:21:07,740 --> 00:21:10,940
[Music]

504
00:21:28,529 --> 00:21:20,340
hmm let's have some Trish and chips is

505
00:21:31,080 --> 00:21:28,539
Trish han will hear it skeptics in the

506
00:21:33,509 --> 00:21:31,090
pub tonight we're onto a big one tonight

507
00:21:35,249 --> 00:21:33,519
it's all about stroke not something I

508
00:21:36,690 --> 00:21:35,259
know about but is it the third biggest

509
00:21:38,460 --> 00:21:36,700
killer Trish you're talking about a lot

510
00:21:40,379 --> 00:21:38,470
where strokes it on the cancer heart

511
00:21:42,119 --> 00:21:40,389
attack accident thing of killing people

512
00:21:44,339 --> 00:21:42,129
yeah so it kills more women than breast

513
00:21:46,830 --> 00:21:44,349

cancer and more men and prostate cancer

514

00:21:48,930 --> 00:21:46,840

it's pretty high and is there any one

515

00:21:50,639 --> 00:21:48,940

single cause is anything we're doing

516

00:21:52,320 --> 00:21:50,649

that makes us have a stroke is there any

517

00:21:54,779 --> 00:21:52,330

one thing that is yours usually the big

518

00:21:59,519 --> 00:21:54,789

risk factor as multiple risk factors

519

00:22:01,529 --> 00:21:59,529

obviously things like immobility you

520

00:22:03,149 --> 00:22:01,539

know because obviously DVT can make

521

00:22:04,919 --> 00:22:03,159

their way they often make the way to the

522

00:22:06,930 --> 00:22:04,929

lung but they can obviously go to the

523

00:22:07,799 --> 00:22:06,940

brain as well there are a few other risk

524

00:22:09,389 --> 00:22:07,809

factors as well like if you've got

525

00:22:11,009 --> 00:22:09,399

certain cardiac conditions in fact one

526
00:22:13,529 --> 00:22:11,019
of the ones I personally have as well

527
00:22:14,789 --> 00:22:13,539
so if your heart is not pumping the way

528
00:22:16,019 --> 00:22:14,799
it should then you can get these blood

529
00:22:19,229 --> 00:22:16,029
clots that form in the heart and then

530
00:22:21,419 --> 00:22:19,239
whack straight up to the brain there are

531
00:22:23,930 --> 00:22:21,429
also conditions such as having a hole in

532
00:22:26,369 --> 00:22:23,940
the heart that can increase risk as well

533
00:22:28,710 --> 00:22:26,379
and then just other lifestyle factors as

534
00:22:30,599 --> 00:22:28,720
well well I was always told smoking is a

535
00:22:32,489 --> 00:22:30,609
huge one for stroke now why is that what

536
00:22:34,200 --> 00:22:32,499
does it do that like alcohol or other

537
00:22:38,249 --> 00:22:34,210
stuff doesn't do what why is stroking a

538
00:22:40,320 --> 00:22:38,259

big one stroking wise wise smoking lead

539

00:22:42,539 --> 00:22:40,330

to stroking well as he smoking is a

540

00:22:45,779 --> 00:22:42,549

generally very very bad for you like in

541

00:22:47,639 --> 00:22:45,789

general isn't it it's it's one of these

542

00:22:50,159 --> 00:22:47,649

risk factors I think which contributes

543

00:22:51,869 --> 00:22:50,169

to many other contributing causes

544

00:22:53,099 --> 00:22:51,879

because you're smoking up a storm you

545

00:22:54,629 --> 00:22:53,109

probably aren't going to the gym very

546

00:22:55,889 --> 00:22:54,639

exactly so I think it's one those things

547

00:22:56,940 --> 00:22:55,899

as well you know the whole thing about

548

00:22:59,280 --> 00:22:56,950

them

549

00:23:00,450 --> 00:22:59,290

people who go to the gym are obviously

550

00:23:02,400 --> 00:23:00,460

generally healthier well that's probably

551
00:23:03,299 --> 00:23:02,410
because they not because they go into

552
00:23:04,890 --> 00:23:03,309
the gym but because they're more

553
00:23:06,060 --> 00:23:04,900
inclined to go to the gym there's a

554
00:23:07,260 --> 00:23:06,070
whole load of contributing factors it's

555
00:23:09,510 --> 00:23:07,270
never just one thing where you take that

556
00:23:11,220 --> 00:23:09,520
box you know I mean like things like

557
00:23:13,770 --> 00:23:11,230
cancer for example being alive is a risk

558
00:23:15,180 --> 00:23:13,780
point for having cancer and also being

559
00:23:17,640 --> 00:23:15,190
alive is a risk factor for having a

560
00:23:19,530 --> 00:23:17,650
stroke unfortunately and you're going to

561
00:23:21,090 --> 00:23:19,540
talk about some of the new innovations

562
00:23:23,160 --> 00:23:21,100
in the treatment of stroke what you've

563
00:23:24,900 --> 00:23:23,170

got on tonight yeah well so I am very

564

00:23:27,450 --> 00:23:24,910

lucky to be involved with an absolutely

565

00:23:29,340 --> 00:23:27,460

amazing team who treat ischemic stroke

566

00:23:33,030 --> 00:23:29,350

using interventional radiology which is

567

00:23:35,280 --> 00:23:33,040

my bag yeah they really do incredible

568

00:23:37,560 --> 00:23:35,290

work and it's it isn't imminent in the

569

00:23:39,270 --> 00:23:37,570

sense of it's only been around less than

570

00:23:41,280 --> 00:23:39,280

a decade the method I'll be talking

571

00:23:43,620 --> 00:23:41,290

about tonight which is endovascular pot

572

00:23:45,510 --> 00:23:43,630

retrieval anybody around for maybe about

573

00:23:47,220 --> 00:23:45,520

a decade and it's only really the last

574

00:23:49,590 --> 00:23:47,230

three or four years it's been actually

575

00:23:51,240 --> 00:23:49,600

widely available looking a special shout

576

00:23:53,130 --> 00:23:51,250

out to peak pork at the lead singer of

577

00:23:54,720 --> 00:23:53,140

the great Newcastle based band the

578

00:23:57,570 --> 00:23:54,730

porkers because on his first date with

579

00:23:59,010 --> 00:23:57,580

his current girl Ronda he had a stroke

580

00:24:00,360 --> 00:23:59,020

on the first date while him up while

581

00:24:02,010 --> 00:24:00,370

their first time in bed together and

582

00:24:04,049 --> 00:24:02,020

Twitter hey you got to get to the

583

00:24:05,610 --> 00:24:04,059

hospital and if she hadn't done that he

584

00:24:07,830 --> 00:24:05,620

might have just continued on his own

585

00:24:08,970 --> 00:24:07,840

yeah I hate so many stories like that

586

00:24:10,919 --> 00:24:08,980

that was one that I'll talk about

587

00:24:13,320 --> 00:24:10,929

tonight of a patient who is out with a

588

00:24:14,700 --> 00:24:13,330

nurse having lunch and the nurse notice

589

00:24:18,210 --> 00:24:14,710

that side of her face has started to go

590

00:24:20,220 --> 00:24:18,220

droopy and she instantly called triple

591

00:24:21,510 --> 00:24:20,230

zero instantly she recognized those

592

00:24:23,400 --> 00:24:21,520

signs straight aware of the face just

593

00:24:25,880 --> 00:24:23,410

going and her friends started slurring

594

00:24:28,890 --> 00:24:25,890

and she was like what she's not drunk

595

00:24:30,900 --> 00:24:28,900

yeah but you wouldn't have much you do

596

00:24:31,860 --> 00:24:30,910

times in minutes isn't it but well no

597

00:24:33,510 --> 00:24:31,870

actually and that's one thing I'll be

598

00:24:35,549 --> 00:24:33,520

talking about tonight so she was very

599

00:24:38,130 --> 00:24:35,559

lucky she was within five kilometers of

600

00:24:40,220 --> 00:24:38,140

our PA so the ambulance got there super

601
00:24:43,560 --> 00:24:40,230
quick she had everything was on her side

602
00:24:45,299 --> 00:24:43,570
but yeah you do often get cases you know

603
00:24:46,140 --> 00:24:45,309
out in the bush for example but one of

604
00:24:47,340 --> 00:24:46,150
things that we talk about tonight is

605
00:24:48,930 --> 00:24:47,350
actually the fact that they have

606
00:24:50,430 --> 00:24:48,940
increased the bracket at the time window

607
00:24:52,110 --> 00:24:50,440
so it used to be this particular

608
00:24:54,419 --> 00:24:52,120
treatment was only available within six

609
00:24:56,159 --> 00:24:54,429
hours and now oftentimes obviously

610
00:24:58,680 --> 00:24:56,169
people will have a stroke in their sleep

611
00:25:00,230 --> 00:24:58,690
yes yeah so if you have a stroke say at

612
00:25:02,299 --> 00:25:00,240
10:00 p.m. and then

613
00:25:04,580 --> 00:25:02,309

you know you wake up with your partner

614

00:25:07,730 --> 00:25:04,590

wakes up at 7:00 well that's you know

615

00:25:10,549 --> 00:25:07,740

that's nine hours of having a stroke so

616

00:25:12,200 --> 00:25:10,559

often they call that like a wake up

617

00:25:14,419 --> 00:25:12,210

stroke so someone who's woken up and it

618

00:25:15,380 --> 00:25:14,429

turns out they've had a stroke often

619

00:25:17,540 --> 00:25:15,390

what can happen as well as you might

620

00:25:19,910 --> 00:25:17,550

have a stroke and you live alone and if

621

00:25:22,010 --> 00:25:19,920

you live out in water you don't have

622

00:25:24,950 --> 00:25:22,020

much on your doorstep that can help you

623

00:25:26,360 --> 00:25:24,960

so we often get patients coming from a

624

00:25:27,919 --> 00:25:26,370

really long way away I spend a lot of my

625

00:25:28,580 --> 00:25:27,929

time watching the flight tracker app on

626

00:25:30,950 --> 00:25:28,590

my phone

627

00:25:32,030 --> 00:25:30,960

see how much time I've got can I fit in

628

00:25:35,540 --> 00:25:32,040

another episode of stranger things

629

00:25:37,130 --> 00:25:35,550

before this one arrives and is it jump I

630

00:25:39,350 --> 00:25:37,140

mean usually I imagine it's stuff like

631

00:25:41,299 --> 00:25:39,360

blood thinners is a first-line thing but

632

00:25:42,770 --> 00:25:41,309

there's much more nuance to treatments

633

00:25:45,830 --> 00:25:42,780

now aren't there absolutely

634

00:25:48,740 --> 00:25:45,840

so yeah clot-busting drugs so frumble

635

00:25:49,970 --> 00:25:48,750

Isis is kind of the the common thing

636

00:25:51,230 --> 00:25:49,980

that they inject obviously they just

637

00:25:53,630 --> 00:25:51,240

inject it into your bloodstream and hope

638

00:25:56,150 --> 00:25:53,640

that it finds its way to the clot but

639

00:25:57,980 --> 00:25:56,160

now we actually do mechanical removal so

640

00:26:01,070 --> 00:25:57,990

we actually go up into the brain find

641

00:26:02,720 --> 00:26:01,080

the clot this is a similar to what when

642

00:26:03,799 --> 00:26:02,730

you have the stent into the heart and

643

00:26:05,000 --> 00:26:03,809

they have a look around there except the

644

00:26:07,100 --> 00:26:05,010

go up into the brain but how long does

645

00:26:09,020 --> 00:26:07,110

it take to get up there minutes really

646

00:26:12,130 --> 00:26:09,030

yeah the record that I've seen and it

647

00:26:15,620 --> 00:26:12,140

was brilliant and not that it's a race

648

00:26:17,330 --> 00:26:15,630

it's a race against biology so one of

649

00:26:19,340 --> 00:26:17,340

the records that I've seen was about 18

650

00:26:20,960 --> 00:26:19,350

minutes from start to finish and that's

651
00:26:23,120 --> 00:26:20,970
from the patient getting onto the table

652
00:26:25,400 --> 00:26:23,130
so actually having full reperfusion of

653
00:26:26,450 --> 00:26:25,410
their brain and you'd only have a valium

654
00:26:27,380 --> 00:26:26,460
drip going on you and you're like that

655
00:26:29,060 --> 00:26:27,390
or what do you do

656
00:26:30,460 --> 00:26:29,070
is the patient sedated at all because

657
00:26:32,690 --> 00:26:30,470
that would just freak me out on its own

658
00:26:34,640 --> 00:26:32,700
it would cause me to have a stroke by

659
00:26:35,780 --> 00:26:34,650
the fact they're trying to yeah so we

660
00:26:38,900 --> 00:26:35,790
take into account multiple risk factors

661
00:26:40,280 --> 00:26:38,910
so if the patient is its most likely to

662
00:26:41,630 --> 00:26:40,290
move throughout the examination because

663
00:26:42,620 --> 00:26:41,640

they're just confused and they have no

664

00:26:45,169 --> 00:26:42,630

idea what's going on then we will

665

00:26:47,030 --> 00:26:45,179

anesthetize them that's for the best but

666

00:26:48,290 --> 00:26:47,040

we have done them fully awake we do

667

00:26:49,610 --> 00:26:48,300

fully awake and that's pretty amazing

668

00:26:52,340 --> 00:26:49,620

because you actually get to see their

669

00:26:54,260 --> 00:26:52,350

recovery instantly honestly there's

670

00:26:55,520 --> 00:26:54,270

nothing quite like you know you get the

671

00:26:56,600 --> 00:26:55,530

patient coming in and being loaded on

672

00:26:58,220 --> 00:26:56,610

ambulance trolley and they are

673

00:26:59,419 --> 00:26:58,230

completely what we call hemiplegic so

674

00:27:01,430 --> 00:26:59,429

they cannot move one side of their body

675

00:27:02,660 --> 00:27:01,440

and they'll often be like struggling and

676

00:27:04,190 --> 00:27:02,670

fighting with the other side so they're

677

00:27:05,480 --> 00:27:04,200

actually moving but they're just it's

678

00:27:06,590 --> 00:27:05,490

like a line drawn down the middle and

679

00:27:08,510 --> 00:27:06,600

they're not leaving that side

680

00:27:10,490 --> 00:27:08,520

we do the clock retrieval sometimes in

681

00:27:12,020 --> 00:27:10,500

like less than half an hour and then

682

00:27:13,250 --> 00:27:12,030

they start moving and they're not even

683

00:27:14,840 --> 00:27:13,260

realizing it and they're just like

684

00:27:18,020 --> 00:27:14,850

liquid up and scratch their nose you

685

00:27:19,580 --> 00:27:18,030

know just like that's awesome yeah now

686

00:27:20,750 --> 00:27:19,590

do you think you can ever see a day

687

00:27:22,940 --> 00:27:20,760

where instead of actually have to

688

00:27:25,610 --> 00:27:22,950

physically intervene up near the artery

689

00:27:26,780 --> 00:27:25,620

you be able to do it like microwave

690

00:27:28,700 --> 00:27:26,790

through the head or something like so

691

00:27:30,650 --> 00:27:28,710

you'll be able to do it from outside and

692

00:27:32,750 --> 00:27:30,660

be able to manipulate the inside from a

693

00:27:38,150 --> 00:27:32,760

short distance I can't see that not

694

00:27:39,770 --> 00:27:38,160

causing problems with radiation you can

695

00:27:41,690 --> 00:27:39,780

zap stuff I thought maybe you could do

696

00:27:43,159 --> 00:27:41,700

some zapping at the clot but obviously

697

00:27:45,470 --> 00:27:43,169

there are associated risks with

698

00:27:47,180 --> 00:27:45,480

radiation so risk versus benefit is the

699

00:27:48,799 --> 00:27:47,190

main thing and at the moment the risk of

700

00:27:50,780 --> 00:27:48,809

like intervening and doing an

701

00:27:53,030 --> 00:27:50,790

endovascular coat retrieval is nothing

702

00:27:55,190 --> 00:27:53,040

compared to the risks of Salem trying

703

00:27:57,799 --> 00:27:55,200

someone's brain so the maenad microwave

704

00:27:59,570 --> 00:27:57,809

way is just that's a few years off yet

705

00:28:01,520 --> 00:27:59,580

file the patent now because you never

706

00:28:02,960 --> 00:28:01,530

know well I'm just thinking you know dr.

707

00:28:04,610 --> 00:28:02,970

McCoy has a salt and pepper shaker he

708

00:28:06,290 --> 00:28:04,620

moves over someone's head that's what

709

00:28:08,210 --> 00:28:06,300

I'm thinking is gonna happen you know so

710

00:28:09,560 --> 00:28:08,220

a magnetic way of doing it you see that

711

00:28:09,860 --> 00:28:09,570

wouldn't hurt as much well you never

712

00:28:11,990 --> 00:28:09,870

know

713

00:28:13,460 --> 00:28:12,000

mMmmm that is pretty amazing looking

714

00:28:14,930 --> 00:28:13,470

good luck with it there and what a good

715

00:28:16,760 --> 00:28:14,940

questions you I think you might get some

716

00:28:19,250 --> 00:28:16,770

high-level questions like I'm not sure

717

00:28:20,720 --> 00:28:19,260

that antigens correct I really hope not

718

00:28:24,010 --> 00:28:20,730

because I'm host night shift and I'm a

719

00:28:26,750 --> 00:28:24,020

little bit delirious but we'll see

720

00:28:28,690 --> 00:28:26,760

medicine system at work people you've

721

00:28:30,740 --> 00:28:28,700

been on work for three days I believe

722

00:28:34,669 --> 00:28:30,750

you can't remember what hospitals you've

723

00:28:36,919 --> 00:28:34,679

been in and the question we are asking

724

00:28:39,020 --> 00:28:36,929

people Trish is should the skeptics

725

00:28:40,850 --> 00:28:39,030

intervene in someone who claims their

726

00:28:42,140 --> 00:28:40,860

psychic healer the New Zealand skeptics

727

00:28:43,700 --> 00:28:42,150

of getting all uppity with the woman

728

00:28:45,169 --> 00:28:43,710

who's coming in there is going to claim

729

00:28:47,630 --> 00:28:45,179

she's going to psychically heal people

730

00:28:49,400 --> 00:28:47,640

is it the skeptics place to bring up

731

00:28:51,049 --> 00:28:49,410

venues and go oh come on that's a bit

732

00:28:53,659 --> 00:28:51,059

fraud II should you be doing that is it

733

00:28:55,549 --> 00:28:53,669

or should they just butt out as someone

734

00:28:57,799 --> 00:28:55,559

who has done exactly that and has

735

00:29:00,409 --> 00:28:57,809

protested outside of venues

736

00:29:01,879 --> 00:29:00,419

I have an opinion yeah I do actually

737

00:29:04,459 --> 00:29:01,889

think that's the case because if someone

738

00:29:06,139 --> 00:29:04,469

was there trying to scam people in other

739

00:29:07,580 --> 00:29:06,149

ways you know like trying to set up a

740

00:29:08,810 --> 00:29:07,590

pyramid scheme or something at big money

741

00:29:11,149 --> 00:29:08,820

I guarantee they'd get shut down by

742

00:29:12,560 --> 00:29:11,159

local Trading Standards so I do feel

743

00:29:14,239 --> 00:29:12,570

like with psychics they've got a bit of

744

00:29:15,769 --> 00:29:14,249

a free pass that we should be trying to

745

00:29:17,060 --> 00:29:15,779

revoke the course as I've been

746

00:29:18,589 --> 00:29:17,070

mentioning that this one she's got the

747

00:29:20,629 --> 00:29:18,599

new angle where she's not actually

748

00:29:23,389 --> 00:29:20,639

healing the people she contacts psychic

749

00:29:25,070 --> 00:29:23,399

surgeons on the other side who kill the

750

00:29:26,659 --> 00:29:25,080

person that and that's that's a good

751

00:29:27,649 --> 00:29:26,669

look even the amazing Randi hadn't

752

00:29:30,200 --> 00:29:27,659

thought of that one that's a new one

753

00:29:32,149 --> 00:29:30,210

that's pretty special juice for

754

00:29:33,709 --> 00:29:32,159

innovative new methods of scamming

755

00:29:35,299 --> 00:29:33,719

people so wonder if she has psychic

756

00:29:36,619 --> 00:29:35,309

lawyers on the other side so if you want

757

00:29:38,029 --> 00:29:36,629

to get a good divorce settlement or

758

00:29:39,709 --> 00:29:38,039

something or sue someone or ran into

759

00:29:41,089 --> 00:29:39,719

your car I just want to know if these

760

00:29:42,200 --> 00:29:41,099

dead doctors that are Pro registered

761

00:29:43,399 --> 00:29:42,210

because you know I feel like we should

762

00:29:45,259 --> 00:29:43,409

be about four complaints about them

763

00:29:46,669 --> 00:29:45,269

that's right and and if they're dead how

764

00:29:48,169 --> 00:29:46,679

long ago did they dive they've been

765

00:29:49,879 --> 00:29:48,179

keeping up there you know have they been

766

00:29:51,169 --> 00:29:49,889

of the best practices you know maybe

767

00:29:54,729 --> 00:29:51,179

there's still like trap hunting and

768

00:29:57,469 --> 00:29:54,739

stuff like that you know is their

769

00:29:59,749 --> 00:29:57,479

psychic malpractice insurance value

770

00:30:00,769 --> 00:29:59,759

absolutely yeah okay well we know where

771

00:30:07,630 --> 00:30:00,779

you sit on that one thanks Trish and

772

00:30:07,640 --> 00:30:11,760

[Music]

773

00:30:16,060 --> 00:30:14,830

i'm mick west in my podcast tells from

774

00:30:17,380 --> 00:30:16,070

the rabbit-hole i have extended

775

00:30:19,840 --> 00:30:17,390

conversations with people who've been

776

00:30:21,400 --> 00:30:19,850

involved in conspiracy culture i do this

777

00:30:22,780 --> 00:30:21,410

for a couple of reasons firstly because

778

00:30:24,400 --> 00:30:22,790

it's really interesting these people

779

00:30:26,200 --> 00:30:24,410

have great stories about how they fell

780

00:30:27,910 --> 00:30:26,210

down the conspiracy theory rabbit hole

781

00:30:29,680 --> 00:30:27,920

what they did down there and what it was

782

00:30:30,880 --> 00:30:29,690

that helped them out sometimes i also

783

00:30:32,140 --> 00:30:30,890

talked to people who investigate

784

00:30:33,670 --> 00:30:32,150

conspiracy theories and they have

785

00:30:34,300 --> 00:30:33,680

equally fascinating stories from the

786

00:30:36,370 --> 00:30:34,310

other side

787

00:30:37,870 --> 00:30:36,380

secondly i want to understand how best

788

00:30:39,400 --> 00:30:37,880

to prevent the spread of conspiracy

789

00:30:40,960 --> 00:30:39,410

theories and misinformation which is an

790

00:30:43,450 --> 00:30:40,970

increasing problem in a time when

791

00:30:45,040 --> 00:30:43,460

alternative media is exploding the best

792

00:30:47,110 --> 00:30:45,050

way to do this is to communicate

793

00:30:49,180 --> 00:30:47,120

effectively with the people involved and

794

00:30:51,160 --> 00:30:49,190

the best way to do that with a nice long

795

00:30:59,030 --> 00:30:51,170

chat check it out

796

00:31:22,840 --> 00:31:22,340

I think we need to think here susan

797

00:31:34,730 --> 00:31:22,850

gerbic

798

00:31:36,890 --> 00:31:34,740

the guerrilla skepticism on wikipedia

799

00:31:38,420 --> 00:31:36,900

project we have just written the

800

00:31:40,460 --> 00:31:38,430

wikipedia pages for several

801
00:31:43,810 --> 00:31:40,470
up-and-coming psychics from one

802
00:31:46,400 --> 00:31:43,820
naturopath when anti-vaxxer the

803
00:31:48,440 --> 00:31:46,410
cryptozoologist and two men who say

804
00:31:51,530 --> 00:31:48,450
they've been abducted by UFOs

805
00:31:53,210 --> 00:31:51,540
a few quack cancer clinics of nicely

806
00:31:56,900 --> 00:31:53,220
written Wikipedia pages because of her

807
00:31:58,100 --> 00:31:56,910
we could be the editing team as I sit

808
00:31:59,660 --> 00:31:58,110
here and think about it we've written

809
00:32:03,020 --> 00:31:59,670
all kinds of pages for what might be

810
00:32:04,910 --> 00:32:03,030
considered the other side one we wrote

811
00:32:06,950 --> 00:32:04,920
years ago was for a child in a coma

812
00:32:09,680 --> 00:32:06,960
whose mother claimed that the child had

813
00:32:11,780 --> 00:32:09,690

the power to heal mom turned her bedroom

814

00:32:13,580 --> 00:32:11,790

into a shrine with glass windows all

815

00:32:17,030 --> 00:32:13,590

around it so the believers could walk

816

00:32:18,320 --> 00:32:17,040

past the room and stare in at the end of

817

00:32:20,660 --> 00:32:18,330

the tour the believers could purchase

818

00:32:23,150 --> 00:32:20,670

blessed oils and cotton swabs with the

819

00:32:26,690 --> 00:32:23,160

child's sweat on it that scam went on

820

00:32:28,550 --> 00:32:26,700

for years until the child died so why do

821

00:32:30,290 --> 00:32:28,560

we do it I mean we spent hours working

822

00:32:32,360 --> 00:32:30,300

on these Wikipedia pages to get them

823

00:32:35,000 --> 00:32:32,370

just right we want them to be readable

824

00:32:36,470 --> 00:32:35,010

enjoyable even with lots of citations

825

00:32:39,050 --> 00:32:36,480

people can follow if they want more

826

00:32:42,290 --> 00:32:39,060

information so I support the notoriety

827

00:32:43,820 --> 00:32:42,300

of scammers and fakes well this was

828

00:32:45,320 --> 00:32:43,830

something that I had to struggle with at

829

00:32:48,650 --> 00:32:45,330

the beginning of our Wikipedia project

830

00:32:50,480 --> 00:32:48,660

was our time spent better working on

831

00:32:53,570 --> 00:32:50,490

Wikipedia pages for people within our

832

00:32:56,060 --> 00:32:53,580

community well I guess over time it

833

00:32:58,010 --> 00:32:56,070

became clear once a person reaches the

834

00:33:00,410 --> 00:32:58,020

tipping point of notability that allows

835

00:33:02,030 --> 00:33:00,420

someone to write a Wikipedia page then

836

00:33:04,190 --> 00:33:02,040

it's best if someone from the scientific

837

00:33:06,920 --> 00:33:04,200

skepticism community does it

838

00:33:09,290 --> 00:33:06,930

we don't want slanderous gossipy nasty

839

00:33:10,910 --> 00:33:09,300

Wikipedia pages we treat the pages the

840

00:33:12,830 --> 00:33:10,920

same way we would if we were someone

841

00:33:15,080 --> 00:33:12,840

from within our science community we

842

00:33:17,000 --> 00:33:15,090

remain as neutral as we can be allowing

843

00:33:18,860 --> 00:33:17,010

the citations we find to tell the story

844

00:33:21,680 --> 00:33:18,870

and those citations are not from

845

00:33:24,200 --> 00:33:21,690

tabloids blogs or websites but from

846

00:33:26,060 --> 00:33:24,210

serious news agencies and that's the

847

00:33:28,640 --> 00:33:26,070

rules of Wikipedia so we have to abide

848

00:33:30,530 --> 00:33:28,650

by them we're going to seek out quality

849

00:33:32,360 --> 00:33:30,540

science articles written by other

850

00:33:34,010 --> 00:33:32,370

notable people who are experts in the

851
00:33:35,570 --> 00:33:34,020
field we aren't going to write a

852
00:33:38,240 --> 00:33:35,580
Wikipedia page for anyone that would

853
00:33:39,890 --> 00:33:38,250
look like fluff we know that Wikipedia

854
00:33:41,780 --> 00:33:39,900
is one of the first links a curious

855
00:33:42,290 --> 00:33:41,790
person might find it in an internet

856
00:33:44,330 --> 00:33:42,300
search

857
00:33:45,800 --> 00:33:44,340
and they are more likely to venture

858
00:33:47,510 --> 00:33:45,810
there first before checking out a

859
00:33:50,690 --> 00:33:47,520
website that might appear to be biased

860
00:33:52,550 --> 00:33:50,700
when way or the other they know that the

861
00:33:55,700 --> 00:33:52,560
Wikipedia page will not have pop-ups

862
00:33:58,150 --> 00:33:55,710
malware or have advertisements so it's a

863
00:34:00,340 --> 00:33:58,160

safe place to go to first

864

00:34:02,200 --> 00:34:00,350

if there is no Wikipedia page then the

865

00:34:04,810 --> 00:34:02,210

only other place a curious person might

866

00:34:06,850 --> 00:34:04,820

find is that person's website as social

867

00:34:10,450 --> 00:34:06,860

media accounts and we know what that's

868

00:34:12,040 --> 00:34:10,460

going to be one-sided so GSO Debu is

869

00:34:13,419 --> 00:34:12,050

going to continue writing Wikipedia

870

00:34:15,430 --> 00:34:13,429

pages for people who practice

871

00:34:17,620 --> 00:34:15,440

pseudoscience as well as all the other

872

00:34:19,470 --> 00:34:17,630

pages we write that are for the pro

873

00:34:22,450 --> 00:34:19,480

science people in our community

874

00:34:25,000 --> 00:34:22,460

it's quite a task and we are only a

875

00:34:27,960 --> 00:34:25,010

little over a hundred editors after all

876

00:34:32,860 --> 00:34:27,970

and we're all volunteers with busy lives

877

00:34:37,150 --> 00:34:32,870

but we managed to create 1158 Wikipedia

878

00:34:39,430 --> 00:34:37,160

pages as I record this and those 1158

879

00:34:42,850 --> 00:34:39,440

pages have been viewed just over 49

880

00:34:44,620 --> 00:34:42,860

million times imagine that if those

881

00:34:47,169 --> 00:34:44,630

pages didn't exist then what would they

882

00:34:49,810 --> 00:34:47,179

find when they searched if you'd like to

883

00:34:51,330 --> 00:34:49,820

become one of our gso w editors please

884

00:34:54,430 --> 00:34:51,340

send me a private message on facebook

885

00:34:56,380 --> 00:34:54,440

training takes about four months and it

886

00:34:59,080 --> 00:34:56,390

does happen on Google Documents and a

887

00:35:00,970 --> 00:34:59,090

secret cabal on Facebook if you have

888

00:35:05,310 --> 00:35:00,980

questions you can find answers on our

889

00:35:08,190 --> 00:35:05,320

website GS o W team.org

890

00:35:15,200 --> 00:35:08,200

thank you

891

00:35:18,660 --> 00:35:15,210

[Music]

892

00:35:20,820 --> 00:35:18,670

the earth is only six thousand years old

893

00:35:23,670 --> 00:35:20,830

that's what Answers in Genesis and the

894

00:35:27,870 --> 00:35:23,680

Creation Museum say and how can a museum

895

00:35:30,930 --> 00:35:27,880

be wrong isn't dr. oz just wonderful I

896

00:35:33,890 --> 00:35:30,940

love today's episode it didn't talk down

897

00:35:36,120 --> 00:35:33,900

to his adoring audience of women at all

898

00:35:38,460 --> 00:35:36,130

science has proved that the subatomic

899

00:35:41,040 --> 00:35:38,470

quantum realm is as real as it is

900

00:35:42,960 --> 00:35:41,050

counterintuitive and bizarre therefore I

901
00:35:45,630 --> 00:35:42,970
can use it to support quantum healing

902
00:35:47,520 --> 00:35:45,640
and quantum consciousness after all how

903
00:35:50,130 --> 00:35:47,530
can journals like Aquarius metaphysics

904
00:35:52,200 --> 00:35:50,140
be wrong evolution is just a theory

905
00:35:55,290 --> 00:35:52,210
after all if we came from monkeys then

906
00:35:56,580 --> 00:35:55,300
why are there still monkeys we all have

907
00:35:59,130 --> 00:35:56,590
friends and family who believe these

908
00:36:01,110 --> 00:35:59,140
things and much more well if you're a

909
00:36:02,880 --> 00:36:01,120
rational thinker who is tired of arguing

910
00:36:04,950 --> 00:36:02,890
on social media and never getting

911
00:36:06,990 --> 00:36:04,960
anywhere we have a solution for you

912
00:36:09,450 --> 00:36:07,000
join the guerrilla skepticism on

913
00:36:11,880 --> 00:36:09,460

wikipedia team and we will teach you how

914

00:36:13,980 --> 00:36:11,890

to add reliable scientific and skeptical

915

00:36:15,330 --> 00:36:13,990

information to the world's number-one

916

00:36:17,760 --> 00:36:15,340

source of information

917

00:36:19,830 --> 00:36:17,770

Wikipedia we write new articles and

918

00:36:21,810 --> 00:36:19,840

improve existing ones we remove

919

00:36:24,270 --> 00:36:21,820

pseudoscience paranormal and altmed

920

00:36:26,550 --> 00:36:24,280

claims substituting the actual facts and

921

00:36:28,530 --> 00:36:26,560

we operate in many languages we've

922

00:36:31,050 --> 00:36:28,540

already reached tens of millions of

923

00:36:32,850 --> 00:36:31,060

people searching for information but as

924

00:36:36,300 --> 00:36:32,860

you can imagine we can never do enough

925

00:36:38,220 --> 00:36:36,310

so please join us all you need is a PC

926
00:36:40,740 --> 00:36:38,230
and the desire to help educate the

927
00:36:43,800 --> 00:36:40,750
planet in fact you'll be educating the

928
00:36:47,340 --> 00:36:43,810
world while you sleep contact us at T is

929
00:36:51,980 --> 00:36:47,350
a W team at gmail.com guerrilla

930
00:36:51,990 --> 00:37:09,700
[Music]

931
00:37:14,650 --> 00:37:12,040
and joining me now all the way from the

932
00:37:17,250 --> 00:37:14,660
University of Melbourne its associate

933
00:37:20,440 --> 00:37:17,260
professor Fiona fiddler hello Fiona

934
00:37:23,200 --> 00:37:20,450
hello Richard great to catch up with you

935
00:37:26,320 --> 00:37:23,210
I'm very interested because you are

936
00:37:28,660 --> 00:37:26,330
appearing at skeptic on 2019 in

937
00:37:31,540 --> 00:37:28,670
Melbourne in December and what an

938
00:37:33,760 --> 00:37:31,550

interesting topic or topics you're going

939

00:37:37,720 --> 00:37:33,770

to be covering first of all you have a

940

00:37:39,810 --> 00:37:37,730

PhD in history and philosophy of science

941

00:37:41,730 --> 00:37:39,820

what what does that entail exactly

942

00:37:45,490 --> 00:37:41,740

history and philosophy of science

943

00:37:48,790 --> 00:37:45,500

studies science in its social historical

944

00:37:51,970 --> 00:37:48,800

context so we ask questions about what

945

00:37:55,510 --> 00:37:51,980

makes science different other ways of

946

00:37:57,130 --> 00:37:55,520

knowing we look at important episodes in

947

00:37:59,920 --> 00:37:57,140

the history of science and see what we

948

00:38:02,110 --> 00:37:59,930

can learn from them we look at social

949

00:38:05,440 --> 00:38:02,120

political and cultural influences of

950

00:38:08,290 --> 00:38:05,450

science the work that I myself do looks

951
00:38:11,080 --> 00:38:08,300
at methodological change within science

952
00:38:14,440 --> 00:38:11,090
so we know a lot about how science

953
00:38:16,780 --> 00:38:14,450
changes its theories how there's us when

954
00:38:19,360 --> 00:38:16,790
there's a switch from one theoretical

955
00:38:21,850 --> 00:38:19,370
paradigm to another but methods change

956
00:38:24,820 --> 00:38:21,860
seems to be different so when do

957
00:38:27,160 --> 00:38:24,830
scientists decide to stop doing

958
00:38:29,140 --> 00:38:27,170
experiments a particular way or stop

959
00:38:33,100 --> 00:38:29,150
using a particular type of statistical

960
00:38:36,070 --> 00:38:33,110
analysis and adopt new methods that's

961
00:38:38,230 --> 00:38:36,080
the fact that I mean so it's it's in a

962
00:38:41,130 --> 00:38:38,240
way it's the scientific investigation of

963
00:38:43,630 --> 00:38:41,140

science you could say yes exactly

964

00:38:45,450 --> 00:38:43,640

well that sounds absolutely fascinating

965

00:38:48,640 --> 00:38:45,460

and I know just reading the information

966

00:38:50,350 --> 00:38:48,650

at the University of Melbourne that you

967

00:38:54,010 --> 00:38:50,360

are very interested in something that we

968

00:38:57,460 --> 00:38:54,020

hear a lot in on sceptical conversations

969

00:39:00,730 --> 00:38:57,470

we hear about the null hypothesis now

970

00:39:02,410 --> 00:39:00,740

for a general overview what is the null

971

00:39:05,170 --> 00:39:02,420

hypothesis and why would you be

972

00:39:07,780 --> 00:39:05,180

investigating that null hypothesis

973

00:39:11,200 --> 00:39:07,790

significance testing is is the full

974

00:39:14,700 --> 00:39:11,210

title of the statistical procedure that

975

00:39:17,320 --> 00:39:14,710

scientists use this is used across

976
00:39:19,830 --> 00:39:17,330
virtually all of the social sciences

977
00:39:23,140 --> 00:39:19,840
life sciences medicine

978
00:39:25,290 --> 00:39:23,150
less so in in physics but

979
00:39:28,240 --> 00:39:25,300
in many Sciences it is the

980
00:39:32,530 --> 00:39:28,250
overwhelmingly dominant statistical

981
00:39:34,930 --> 00:39:32,540
method and it starts by testing in

982
00:39:36,610 --> 00:39:34,940
typical practice it starts by testing a

983
00:39:39,420 --> 00:39:36,620
hypothesis that there is no difference

984
00:39:42,550 --> 00:39:39,430
and from you know from the outset that

985
00:39:44,380 --> 00:39:42,560
that's a bit of a fudge really we

986
00:39:46,630 --> 00:39:44,390
wouldn't normally be doing an experiment

987
00:39:48,640 --> 00:39:46,640
or a study if we didn't think there was

988
00:39:51,360 --> 00:39:48,650

some difference between these two groups

989

00:39:54,610 --> 00:39:51,370

or that this drug was going to have some

990

00:39:57,100 --> 00:39:54,620

influence on what whatever disease were

991

00:39:59,890 --> 00:39:57,110

using it for hmm so testing a null

992

00:40:03,460 --> 00:39:59,900

hypothesis is a is a bit of a straw man

993

00:40:05,710 --> 00:40:03,470

in many cases so but that's the starting

994

00:40:08,230 --> 00:40:05,720

point is that you assume that there is

995

00:40:10,950 --> 00:40:08,240

no difference between the boys and girls

996

00:40:15,910 --> 00:40:10,960

or the treatment and control group and

997

00:40:18,640 --> 00:40:15,920

look for deviations from that it's a

998

00:40:23,860 --> 00:40:18,650

practice that's been heavily criticized

999

00:40:26,230 --> 00:40:23,870

now in virtually all Sciences for six or

1000

00:40:29,620 --> 00:40:26,240

seven decades these criticisms go back

1001
00:40:33,490 --> 00:40:29,630
to the 1940s but pretty much the you

1002
00:40:38,590 --> 00:40:33,500
know from the its first use in applied

1003
00:40:40,690 --> 00:40:38,600
science and yet in most cases scientists

1004
00:40:44,170 --> 00:40:40,700
have been very reluctant to give up

1005
00:40:47,380 --> 00:40:44,180
their practice of using null hypothesis

1006
00:40:50,230 --> 00:40:47,390
significance testing and my PhD

1007
00:40:53,140 --> 00:40:50,240
dissertation investigated the question

1008
00:40:57,850 --> 00:40:53,150
of why there has been so much resistance

1009
00:40:59,530 --> 00:40:57,860
to to abandoning that method that's very

1010
00:41:01,330 --> 00:40:59,540
interesting because I I didn't know

1011
00:41:04,780 --> 00:41:01,340
there was a controversy at all it's just

1012
00:41:07,270 --> 00:41:04,790
one of these things you hear and I don't

1013
00:41:09,970 --> 00:41:07,280

have a degree in science myself so I

1014

00:41:11,380 --> 00:41:09,980

guess like the average person on the

1015

00:41:13,570 --> 00:41:11,390

street I would have heard this term

1016

00:41:16,180 --> 00:41:13,580

every now and then just assumed it was a

1017

00:41:18,400 --> 00:41:16,190

vital part of scientific testing and

1018

00:41:22,990 --> 00:41:18,410

rigor well there is of course some

1019

00:41:24,730 --> 00:41:23,000

debate there there are certainly some

1020

00:41:27,700 --> 00:41:24,740

uses of the test that might be

1021

00:41:29,980 --> 00:41:27,710

appropriate but there are many many more

1022

00:41:32,020 --> 00:41:29,990

that are inappropriate and I think at

1023

00:41:36,340 --> 00:41:32,030

this point there have been when I

1024

00:41:37,000 --> 00:41:36,350

finished my PhD in thesis in 2006 they

1025

00:41:40,330 --> 00:41:37,010

had at that

1026

00:41:44,050 --> 00:41:40,340

bring Nellie 2,000 criticisms oh no

1027

00:41:46,510 --> 00:41:44,060

hypothesis-testing published well good

1028

00:41:49,060 --> 00:41:46,520

grief without signs for you of course I

1029

00:41:50,890 --> 00:41:49,070

mean I mean the whole idea and I hope

1030

00:41:53,440 --> 00:41:50,900

the whole idea of science is continual

1031

00:41:55,750 --> 00:41:53,450

revision and improvement and if that is

1032

00:41:57,070 --> 00:41:55,760

the case with the null hypothesis gee

1033

00:41:59,050 --> 00:41:57,080

that could lead you down all sorts of

1034

00:42:00,640 --> 00:41:59,060

interesting rabbit holes another thing I

1035

00:42:02,770 --> 00:42:00,650

found interesting was that you are

1036

00:42:04,480 --> 00:42:02,780

looking into something and this is

1037

00:42:07,360 --> 00:42:04,490

something I don't know much about called

1038

00:42:09,190 --> 00:42:07,370

pea hacking are you happy no it's not

1039

00:42:13,090 --> 00:42:09,200

shelling peas to find the best one what

1040

00:42:16,480 --> 00:42:13,100

is P hacking exactly well a p-value is

1041

00:42:19,000 --> 00:42:16,490

the output of null hypothesis

1042

00:42:21,400 --> 00:42:19,010

significance testing should say that

1043

00:42:25,270 --> 00:42:21,410

there are other there are there are many

1044

00:42:27,250 --> 00:42:25,280

ways one can use a p-value but the the

1045

00:42:31,480 --> 00:42:27,260

dominant way associated with null

1046

00:42:36,460 --> 00:42:31,490

hypothesis testing is to set a cut-off a

1047

00:42:39,730 --> 00:42:36,470

threshold usually P 0.05 where we say

1048

00:42:43,180 --> 00:42:39,740

that we're willing to tolerate a 5%

1049

00:42:45,790 --> 00:42:43,190

false positive error rate and when

1050

00:42:47,950 --> 00:42:45,800

something falls below that threshold of

1051

00:42:49,750 --> 00:42:47,960

0.05 we will call the results

1052

00:42:51,100 --> 00:42:49,760

statistically significant and when it

1053

00:42:53,950 --> 00:42:51,110

doesn't we call it statistically

1054

00:42:56,020 --> 00:42:53,960

nonsignificant so that's that's sort of

1055

00:42:59,860 --> 00:42:56,030

the most common way that people use

1056

00:43:04,240 --> 00:42:59,870

abused and it means that this 0.05 has

1057

00:43:07,060 --> 00:43:04,250

become a threshold that gets used to

1058

00:43:09,910 --> 00:43:07,070

decide which studies get published or

1059

00:43:12,730 --> 00:43:09,920

which results are regarded as important

1060

00:43:15,490 --> 00:43:12,740

and because of the sort of gatekeeping

1061

00:43:18,580 --> 00:43:15,500

significance that that number holds

1062

00:43:21,160 --> 00:43:18,590

people will do all kinds of things to

1063

00:43:24,550 --> 00:43:21,170

ensure that their result does get over

1064

00:43:28,450 --> 00:43:24,560

that threshold so that's where the word

1065

00:43:31,720 --> 00:43:28,460

hacking comes in yeah so there are many

1066

00:43:35,140 --> 00:43:31,730

ways that scientists can do can engage

1067

00:43:38,800 --> 00:43:35,150

in P hacking they can trim a couple of

1068

00:43:41,590 --> 00:43:38,810

outliers from their results for example

1069

00:43:43,240 --> 00:43:41,600

or they can transform a particular

1070

00:43:48,040 --> 00:43:43,250

variable that they might not have

1071

00:43:50,860 --> 00:43:48,050

otherwise transformed they can engage in

1072

00:43:53,170 --> 00:43:50,870

some over in

1073

00:43:58,030 --> 00:43:53,180

you see a stick rounding of different

1074

00:43:59,830 --> 00:43:58,040

places I guess this comes back to the

1075

00:44:03,640 --> 00:43:59,840

amazing fact that scientists are also

1076

00:44:06,910 --> 00:44:03,650

human and they're likely to do very

1077

00:44:08,980 --> 00:44:06,920

human things from time to time yeah and

1078

00:44:14,020 --> 00:44:08,990

if the and if there is a lot of pressure

1079

00:44:17,170 --> 00:44:14,030

to to publish every study that you do

1080

00:44:19,750 --> 00:44:17,180

and if there is public if there is

1081

00:44:21,940 --> 00:44:19,760

publication bias focused on these

1082

00:44:26,140 --> 00:44:21,950

arbitrary thresholds if the incentives

1083

00:44:28,510 --> 00:44:26,150

are set up in ways that encourage or

1084

00:44:30,850 --> 00:44:28,520

almost force scientists into these

1085

00:44:34,210 --> 00:44:30,860

practices then you know then they will

1086

00:44:37,570 --> 00:44:34,220

do what they need to do to keep their

1087

00:44:40,510 --> 00:44:37,580

jobs and get their next grant keep their

1088

00:44:44,470 --> 00:44:40,520

research like lights on yeah yeah again

1089

00:44:46,270 --> 00:44:44,480

it was a very very human thing to do and

1090

00:44:48,160 --> 00:44:46,280

this is one of the things that makes

1091

00:44:51,970 --> 00:44:48,170

science so interesting I think it's it's

1092

00:44:55,540 --> 00:44:51,980

a great idea and but it's conducted by

1093

00:44:57,280 --> 00:44:55,550

us poor fallible humans now Fiona what

1094

00:44:59,950 --> 00:44:57,290

can people look forward to when they

1095

00:45:02,830 --> 00:44:59,960

come to skeptic on 2019 to see your

1096

00:45:05,680 --> 00:45:02,840

presentation at skeptical I'm going to

1097

00:45:07,360 --> 00:45:05,690

be talking about a new project that my

1098

00:45:10,630 --> 00:45:07,370

research group and I are engaged in

1099

00:45:12,640 --> 00:45:10,640

called the replicates project where the

1100

00:45:15,520 --> 00:45:12,650

cats part of that stands for

1101
00:45:19,270 --> 00:45:15,530
collaborative assessments of trustworthy

1102
00:45:21,880 --> 00:45:19,280
science hmm and it's a project that is a

1103
00:45:25,210 --> 00:45:21,890
it's a crowd-sourced project in a sense

1104
00:45:28,440 --> 00:45:25,220
where we're asking researchers from any

1105
00:45:31,660 --> 00:45:28,450
relevant social science discipline there

1106
00:45:35,080 --> 00:45:31,670
I'll tell you what those are at skeptic

1107
00:45:38,320 --> 00:45:35,090
um to become involved in helping us

1108
00:45:40,810 --> 00:45:38,330
predict which studies in the published

1109
00:45:44,230 --> 00:45:40,820
literature would be likely to replicate

1110
00:45:48,520 --> 00:45:44,240
should they be should those experiments

1111
00:45:50,980 --> 00:45:48,530
or studies be repeated uh-huh so in 2011

1112
00:45:53,020 --> 00:45:50,990
that's the date that's widely recognized

1113
00:45:56,440 --> 00:45:53,030

as the start of this new episode in

1114

00:46:00,790 --> 00:45:56,450

science called the replication crisis it

1115

00:46:03,160 --> 00:46:00,800

began really when large collaborations

1116

00:46:04,660 --> 00:46:03,170

of researchers around the world started

1117

00:46:07,120 --> 00:46:04,670

engaging in

1118

00:46:11,260 --> 00:46:07,130

occasions of studies in the published

1119

00:46:14,140 --> 00:46:11,270

literature so redoing 50 experiments in

1120

00:46:16,859 --> 00:46:14,150

cancer biology or redoing a hundred

1121

00:46:19,870 --> 00:46:16,869

studies published in social psychology

1122

00:46:22,270 --> 00:46:19,880

it there have now been replication

1123

00:46:25,859 --> 00:46:22,280

studies in a range of different

1124

00:46:28,720 --> 00:46:25,869

disciplines medicine and psychology

1125

00:46:31,569 --> 00:46:28,730

economics even experimental philosophy

1126

00:46:35,109 --> 00:46:31,579

and and across all though the

1127

00:46:37,150 --> 00:46:35,119

replication rates vary on the whole the

1128

00:46:40,720 --> 00:46:37,160

results have been somewhat disappointing

1129

00:46:42,309 --> 00:46:40,730

we might not have expected every single

1130

00:46:44,890 --> 00:46:42,319

study in the published scientific

1131

00:46:47,589 --> 00:46:44,900

literature to replicate perfectly but we

1132

00:46:50,859 --> 00:46:47,599

certainly would have expected the rights

1133

00:46:53,620 --> 00:46:50,869

to be higher than about 40 or 50 percent

1134

00:46:55,960 --> 00:46:53,630

which is where they seem to be falling a

1135

00:46:58,210 --> 00:46:55,970

lot of scientists since over the last

1136

00:47:00,970 --> 00:46:58,220

seven or eight years have been engaged

1137

00:47:04,960 --> 00:47:00,980

in activities to improve the replication

1138

00:47:07,210 --> 00:47:04,970

rate in science but redoing all of these

1139

00:47:09,730 --> 00:47:07,220

studies is obviously very time consuming

1140

00:47:13,450 --> 00:47:09,740

takes a lot of resources a lot of money

1141

00:47:17,710 --> 00:47:13,460

and so now we're at a point where King

1142

00:47:19,660 --> 00:47:17,720

for other ways of detecting studies that

1143

00:47:21,819 --> 00:47:19,670

are likely to fail to replicate and

1144

00:47:24,299 --> 00:47:21,829

that's what the replicates project is

1145

00:47:27,130 --> 00:47:24,309

about so we're looking at whether

1146

00:47:29,349 --> 00:47:27,140

scientists in those areas researchers in

1147

00:47:32,380 --> 00:47:29,359

those areas can predict which studies

1148

00:47:34,660 --> 00:47:32,390

are likely to replicate or not and for

1149

00:47:36,579 --> 00:47:34,670

those who can we're looking at what

1150

00:47:39,430 --> 00:47:36,589

reasoning they're using to do that what

1151
00:47:41,589 --> 00:47:39,440
cues in heuristics they're relying on so

1152
00:47:43,839 --> 00:47:41,599
that's the that's the huge crowd source

1153
00:47:45,849 --> 00:47:43,849
project that I'll be talking about apps

1154
00:47:47,740 --> 00:47:45,859
get become well that sounds absolutely

1155
00:47:50,319 --> 00:47:47,750
fascinating for somebody like me who

1156
00:47:53,650 --> 00:47:50,329
skates along merrily on the on the

1157
00:47:56,760 --> 00:47:53,660
surface of science on thin ice sometimes

1158
00:47:59,440 --> 00:47:56,770
I don't often get to hear about the

1159
00:48:01,450 --> 00:47:59,450
inner workings and in the vital work

1160
00:48:03,910 --> 00:48:01,460
like that well folks there is another

1161
00:48:06,250 --> 00:48:03,920
clue another hint for you and another

1162
00:48:08,530 --> 00:48:06,260
motivation to attend skeptic on in

1163
00:48:11,109 --> 00:48:08,540

Melbourne later on this year well

1164

00:48:12,880 --> 00:48:11,119

professor Fiona fiddler thank you very

1165

00:48:14,780 --> 00:48:12,890

much for your time today and I look

1166

00:48:17,480 --> 00:48:14,790

forward to seeing you in

1167

00:48:35,800 --> 00:48:17,490

Thanks I'm look forward to it too

1168

00:48:39,970 --> 00:48:37,530

[Applause]

1169

00:48:41,829 --> 00:48:39,980

thank you for listening to the skeptic

1170

00:48:44,700 --> 00:48:41,839

zone on next week's show we're bringing

1171

00:48:47,589 --> 00:48:44,710

you part 1 of a continuing series of

1172

00:48:49,930 --> 00:48:47,599

readings by Tim Mendham the editor of

1173

00:48:53,800 --> 00:48:49,940

the skeptic and the executive officer of

1174

00:48:56,980 --> 00:48:53,810

Australian skeptics uh and next week Tim

1175

00:49:01,300 --> 00:48:56,990

will be starting off with an article

1176

00:49:04,120 --> 00:49:01,310

about free speech free speech which is a

1177

00:49:06,970 --> 00:49:04,130

pretty important issue worldwide I think

1178

00:49:10,510 --> 00:49:06,980

also on next week's show we hope to

1179

00:49:14,410 --> 00:49:10,520

bring you a report oh yes once again

1180

00:49:19,329 --> 00:49:14,420

let's come up mind/body wallet here in

1181

00:49:21,579 --> 00:49:19,339

Sydney always an adventure of course

1182

00:49:25,329 --> 00:49:21,589

what I mean is mind body spirit the

1183

00:49:28,930 --> 00:49:25,339

festival all the way you can see no end

1184

00:49:31,480 --> 00:49:28,940

of woe and wonder and some talking about

1185

00:49:34,780 --> 00:49:31,490

shonky products some pretty interesting

1186

00:49:37,660 --> 00:49:34,790

things on display now it's only occurred

1187

00:49:41,050 --> 00:49:37,670

to me in the last little while in fact

1188

00:49:43,180 --> 00:49:41,060

since the skeptoid 13th birthday about a

1189

00:49:45,730 --> 00:49:43,190

week ago that the skeptic zone is

1190

00:49:48,760 --> 00:49:45,740

actually 11 11 years old in fact it

1191

00:49:53,230 --> 00:49:48,770

turned 11 at the end of last month

1192

00:49:55,270 --> 00:49:53,240

so using skeptoid as an example I hope

1193

00:49:57,460 --> 00:49:55,280

and I asked and I request that everybody

1194

00:50:01,740 --> 00:49:57,470

who has enjoyed the skeptic zone for the

1195

00:50:05,710 --> 00:50:01,750

past 11 years might consider chipping in

1196

00:50:08,770 --> 00:50:05,720

\$11 \$11 in your particular currency or

1197

00:50:12,510 --> 00:50:08,780

11 pounds 11 Australian dollars 11

1198

00:50:16,900 --> 00:50:12,520

Canadian dollars 11 US dollars 11

1199

00:50:19,109 --> 00:50:16,910

rupaul's 11 yen whatever whatever which

1200

00:50:21,339 --> 00:50:19,119

may be you can do the conversion and

1201
00:50:25,690 --> 00:50:21,349
find something that's roughly equivalent

1202
00:50:27,700 --> 00:50:25,700
to eleven dollars Australian so if you

1203
00:50:31,120 --> 00:50:27,710
don't regularly contribute with patreon

1204
00:50:34,359 --> 00:50:31,130
or PayPal head to the skeptic zone TV

1205
00:50:36,310 --> 00:50:34,369
website skeptics and TV and click the

1206
00:50:39,099 --> 00:50:36,320
link and you can discover how to chip in

1207
00:50:44,010 --> 00:50:39,109
or if you just want to do it straight

1208
00:50:47,160 --> 00:50:44,020
using PayPal you can use saunders TV at

1209
00:50:49,920 --> 00:50:47,170
yahoo.com or a

1210
00:50:53,460 --> 00:50:49,930
you that's the address used for the

1211
00:50:56,190 --> 00:50:53,470
skeptic zone for PayPal 11 years 11

1212
00:50:59,059 --> 00:50:56,200
years bringing you weekly science and

1213
00:51:02,670 --> 00:50:59,069

reason and fun nonsense and and

1214

00:51:04,740 --> 00:51:02,680

investigations reports interviews but

1215

00:51:11,670 --> 00:51:04,750

for this week this is Richard Saunders

1216

00:51:13,470 --> 00:51:11,680

signing off from Sydney Australia you've

1217

00:51:18,500 --> 00:51:13,480

been listening to the skeptic zone

1218

00:51:20,099 --> 00:51:18,510

podcast please visit our website at WWDC

1219

00:51:23,280 --> 00:51:20,109

because shownotes

1220

00:51:27,480 --> 00:51:23,290

contacts and to access the bat catalog

1221

00:51:29,190 --> 00:51:27,490

of episodes going back to 2008 you can

1222

00:51:32,250 --> 00:51:29,200

follow the skeptic zone podcast on

1223

00:51:34,530 --> 00:51:32,260

twitter at skeptic zone visit our

1224

00:51:37,890 --> 00:51:34,540

facebook page or leave a review on

1225

00:51:41,250 --> 00:51:37,900

itunes you can also support the skeptic

1226

00:51:43,620 --> 00:51:41,260

zone via patreon or PayPal the skeptic

1227

00:51:45,780 --> 00:51:43,630

zone podcast is an independent

1228

00:51:47,760 --> 00:51:45,790

production the views and opinions

1229

00:51:49,920 --> 00:51:47,770

expressed on the skeptic zone are not

1230

00:51:52,850 --> 00:51:49,930

necessarily those of Australian skeptics