

1
00:00:05,950 --> 00:00:13,679
welcome to the skeptic zone the podcast

2
00:00:09,099 --> 00:00:13,679
from Australia for science and reason

3
00:00:22,160 --> 00:00:28,859
hello and welcome to the skeptic zone

4
00:00:24,839 --> 00:00:31,800
episode number 372 for the sixth of

5
00:00:28,859 --> 00:00:35,129
December 2015 Richard Saunders here with

6
00:00:31,800 --> 00:00:37,558
you from Sydney Australia just back from

7
00:00:35,130 --> 00:00:39,780
Newcastle just up the coast north of

8
00:00:37,558 --> 00:00:42,899
Sydney where last night I went to a

9
00:00:39,780 --> 00:00:45,660
Maynard special night may not the farce

10
00:00:42,899 --> 00:00:47,250
awakens thank you to all the skeptics on

11
00:00:45,659 --> 00:00:49,619
fans who turned up we had a really great

12
00:00:47,250 --> 00:00:52,140
time Maynard showed some weed and

13
00:00:49,619 --> 00:00:53,929
bizarre clips including some snippets

14
00:00:52,140 --> 00:00:57,179
from the star wars holiday special

15
00:00:53,929 --> 00:00:59,670
mm-hmm what am excellent production that

16
00:00:57,179 --> 00:01:01,950
is and then we all enjoyed a special

17
00:00:59,670 --> 00:01:04,140
screening of the movie Spaceballs thanks

18
00:01:01,950 --> 00:01:06,930
many nod that was a great night and keep

19
00:01:04,140 --> 00:01:09,689
an eye out folks we'll see if we can get

20
00:01:06,930 --> 00:01:12,210
main out to do some more special events

21
00:01:09,689 --> 00:01:15,090
coming up but what's coming up on this

22
00:01:12,209 --> 00:01:16,978
week's episode of the skeptic zone we're

23
00:01:15,090 --> 00:01:19,978
going to kick off with an interview with

24
00:01:16,978 --> 00:01:23,429
an old friend of mine the Skip doc dr.

25
00:01:19,978 --> 00:01:26,429
Harriet hall now dr. Harriet hall has

26
00:01:23,430 --> 00:01:28,080
recently just last week I think put

27
00:01:26,430 --> 00:01:31,560
online via the James Randi Educational

28
00:01:28,079 --> 00:01:33,478
Foundation their YouTube channel a

29

00:01:31,560 --> 00:01:36,840
series of 10 lectures about

30
00:01:33,478 --> 00:01:40,289
science-based medicine but as it happens

31
00:01:36,840 --> 00:01:43,950
most of the lectures concentrate on the

32
00:01:40,290 --> 00:01:45,868
pitfalls and the shortcomings and sort

33
00:01:43,950 --> 00:01:48,240
of an analysis of many alternative

34
00:01:45,868 --> 00:01:50,280
therapies in order to give one a better

35
00:01:48,239 --> 00:01:53,129
understanding of what science-based

36
00:01:50,280 --> 00:01:56,579
medicine is there are links are coming

37
00:01:53,129 --> 00:01:58,709
up in the interview of dr. Hall and the

38
00:01:56,579 --> 00:02:00,298
best advice I can give you is after

39
00:01:58,709 --> 00:02:01,769
listening to the skeptic zone today

40
00:02:00,299 --> 00:02:03,960
tonight this evening this morning

41
00:02:01,769 --> 00:02:05,879
whenever you're listening to it run to

42
00:02:03,959 --> 00:02:08,579
the internet and check out this series

43
00:02:05,879 --> 00:02:09,959

of lectures by dr. Harriet hall more

44

00:02:08,580 --> 00:02:12,870

about that coming up at the top of the

45

00:02:09,959 --> 00:02:15,629

show following that it's the raw skeptic

46

00:02:12,870 --> 00:02:17,480

report with Heidi Robertson this week as

47

00:02:15,629 --> 00:02:20,159

part of her series into

48

00:02:17,479 --> 00:02:23,969

vaccine-preventable diseases Heidi will

49

00:02:20,159 --> 00:02:27,750

tell us about meningococcal a very very

50

00:02:23,969 --> 00:02:30,419

serious disease indeed sadly people

51

00:02:27,750 --> 00:02:32,969

still succumb to ninja kaka every year

52

00:02:30,419 --> 00:02:33,429

how it is going to be discussing what it

53

00:02:32,969 --> 00:02:35,949

is

54

00:02:33,430 --> 00:02:38,879

the symptoms to keep an eye out for and

55

00:02:35,949 --> 00:02:41,018

then she'll interview a survivor

56

00:02:38,878 --> 00:02:43,298

somebody who went through the horrors of

57

00:02:41,019 --> 00:02:46,629

meningococcal and came out the other

58
00:02:43,299 --> 00:02:48,489
side what an interesting interview it is

59
00:02:46,628 --> 00:02:50,768
man what an interesting report all over

60
00:02:48,489 --> 00:02:52,239
by Heidi Roberts and that's coming up a

61
00:02:50,769 --> 00:02:53,739
little bit later on in the show then we

62
00:02:52,239 --> 00:02:57,489
have a week inside some of the Royal

63
00:02:53,739 --> 00:02:59,789
Institution of Australia w WR I a u.s.

64
00:02:57,489 --> 00:03:02,378
org a you what are the leading

65
00:02:59,789 --> 00:03:04,750
scientific organizations in Australia

66
00:03:02,378 --> 00:03:06,548
then the round off the show yes its main

67
00:03:04,750 --> 00:03:09,370
odd man out at Sydney's skeptics in the

68
00:03:06,549 --> 00:03:11,980
pub asking the big question what should

69
00:03:09,370 --> 00:03:13,719
you get a skeptic for Christmas what

70
00:03:11,979 --> 00:03:15,369
should you get a skeptic for Christmas

71
00:03:13,719 --> 00:03:17,348
and thanks to Ross spouts from the

72
00:03:15,370 --> 00:03:19,120
Brisbane skeptics society who is down

73
00:03:17,348 --> 00:03:20,828
here in city gave us a talk at sydney

74
00:03:19,120 --> 00:03:23,769
skeptics in the pub we're going to be

75
00:03:20,829 --> 00:03:26,109
hearing an interview with Ross on the

76
00:03:23,769 --> 00:03:28,329
next skeptics out next week so look out

77
00:03:26,109 --> 00:03:30,639
for that but this week may not chatting

78
00:03:28,329 --> 00:03:32,769
to various pub goers about what they

79
00:03:30,639 --> 00:03:35,799
think a good Christmas present for

80
00:03:32,769 --> 00:03:37,689
skeptics might be and don't forget

81
00:03:35,799 --> 00:03:40,209
people in Sydney skeptics in the pub

82
00:03:37,689 --> 00:03:42,189
first thursday of the month at the crown

83
00:03:40,209 --> 00:03:45,280
hotel the corner of goldman elizabeth

84
00:03:42,189 --> 00:03:46,719
streets and yes even in january even in

85
00:03:45,280 --> 00:03:48,250
generally the first thursday in january

86

00:03:46,719 --> 00:03:50,438
we're going to have a skeptics in the

87
00:03:48,250 --> 00:03:52,180
pub the best thing to do is to go to

88
00:03:50,438 --> 00:03:54,969
meet up and check out the links there or

89
00:03:52,180 --> 00:03:57,040
just turn up six o'clock first thursday

90
00:03:54,969 --> 00:03:59,250
of the month that always be some

91
00:03:57,039 --> 00:04:02,138
skeptics Tanner we had some great times

92
00:03:59,250 --> 00:04:04,269
this one with Ross giving a talk which

93
00:04:02,139 --> 00:04:06,519
was fascinating and afterwards oh yes

94
00:04:04,269 --> 00:04:10,509
the dreaded spoon bending came out and

95
00:04:06,519 --> 00:04:12,400
people were what's the terms her half

96
00:04:10,508 --> 00:04:14,318
gobsmacked and half annoyed there's

97
00:04:12,400 --> 00:04:16,569
usually what you get when you bend

98
00:04:14,318 --> 00:04:19,149
spoons if you want to learn how to bend

99
00:04:16,569 --> 00:04:21,038
spoons that's the place to go but that's

100
00:04:19,149 --> 00:04:23,948

enough for me at the moment I'm going to

101

00:04:21,038 --> 00:04:25,899

run downstairs open the fridge I'm going

102

00:04:23,949 --> 00:04:31,419

to have the classic soda water with ice

103

00:04:25,899 --> 00:04:33,819

for a nice warm Sydney afternoon hmm

104

00:04:31,418 --> 00:04:35,469

that doesn't sound too bad at all well

105

00:04:33,819 --> 00:04:38,098

I'm doing that I hope you enjoy the

106

00:04:35,470 --> 00:04:38,099

skeptic zone

107

00:04:56,850 --> 00:05:03,010

and joining me now on the line from

108

00:05:01,000 --> 00:05:05,050

Washington State now there's a state ID

109

00:05:03,009 --> 00:05:06,939

like to visit one day and if I'm

110

00:05:05,050 --> 00:05:09,550

visiting Washington State I hope I can

111

00:05:06,939 --> 00:05:11,680

visit the home of the skeptic dr.

112

00:05:09,550 --> 00:05:15,939

Harriet hall joining me now hello

113

00:05:11,680 --> 00:05:18,879

Harriet hello Richard hello so nice to

114

00:05:15,939 --> 00:05:20,529

catch up with you I'm always pleased

115
00:05:18,879 --> 00:05:22,420
want to think about you because I was

116
00:05:20,529 --> 00:05:26,549
the very first person to interview you

117
00:05:22,420 --> 00:05:29,560
for a podcast way back in 2007 I believe

118
00:05:26,550 --> 00:05:32,290
that's right that was on that cruise to

119
00:05:29,560 --> 00:05:34,030
Alaska yes the amazing adventure the the

120
00:05:32,290 --> 00:05:36,310
amazing invention north to Alaska with

121
00:05:34,029 --> 00:05:37,959
james randi you were there dr. Phil

122
00:05:36,310 --> 00:05:40,240
Plait was there a host of other people

123
00:05:37,959 --> 00:05:41,799
what it what a fun trip that was and we

124
00:05:40,240 --> 00:05:43,449
sat down and we had a bit of a chat

125
00:05:41,800 --> 00:05:46,000
because I was very interested in what

126
00:05:43,449 --> 00:05:47,860
you did in your background for the sake

127
00:05:46,000 --> 00:05:51,220
of our listeners Harriet can you tell

128
00:05:47,860 --> 00:05:54,910
our listeners of today of 2015 a little

129
00:05:51,220 --> 00:05:57,130
bit about your background I'm a medical

130
00:05:54,910 --> 00:05:59,320
doctor oh is a specialist in family

131
00:05:57,129 --> 00:06:01,480
practice and I spent 20 years in the Air

132
00:05:59,319 --> 00:06:04,120
Force where I was a flight surgeon for

133
00:06:01,480 --> 00:06:06,310
part of my career and I didn't start

134
00:06:04,120 --> 00:06:08,860
writing or investigating alternative

135
00:06:06,310 --> 00:06:11,920
medicine until after I was retired wow

136
00:06:08,860 --> 00:06:13,750
wow that that's quite impressive to to

137
00:06:11,920 --> 00:06:16,300
have that full career then retire then

138
00:06:13,750 --> 00:06:19,000
almost start a completely different

139
00:06:16,300 --> 00:06:21,610
career and this is something that's very

140
00:06:19,000 --> 00:06:23,529
much held your interest for some time

141
00:06:21,610 --> 00:06:26,170
now especially where all the time I've

142
00:06:23,529 --> 00:06:27,519
known you now you've been involved and

143

00:06:26,170 --> 00:06:29,020
the reason we're really chatting today

144
00:06:27,519 --> 00:06:31,689
you've been involved with a series of

145
00:06:29,019 --> 00:06:33,909
lectures which are up on the james randi

146
00:06:31,689 --> 00:06:36,730
educational foundations youtube channel

147
00:06:33,910 --> 00:06:39,370
and for those people wanting to have a

148
00:06:36,730 --> 00:06:42,970
look at that just go to youtube.com /

149
00:06:39,370 --> 00:06:44,439
user / James Randi foundation one word

150
00:06:42,970 --> 00:06:47,950
and you'll see those lectures come up

151
00:06:44,439 --> 00:06:50,500
it's a series of 10 lectures and it's a

152
00:06:47,949 --> 00:06:52,659
it's interesting it's an interesting

153
00:06:50,500 --> 00:06:55,689
angle you've taken really the lectures

154
00:06:52,660 --> 00:06:57,220
are about science-based medicine but as

155
00:06:55,689 --> 00:06:59,889
it turns out most

156
00:06:57,220 --> 00:07:02,980
the lectures cover alternative medicine

157
00:06:59,889 --> 00:07:05,740

how does that work well I explained that

158

00:07:02,980 --> 00:07:09,580
in the first lecture there there's

159

00:07:05,740 --> 00:07:12,810
reason in my madness for one thing I

160

00:07:09,579 --> 00:07:14,949
think the best way to understand about

161

00:07:12,810 --> 00:07:17,889
to understand what science-based

162

00:07:14,949 --> 00:07:21,670
medicine is is to understand what it

163

00:07:17,889 --> 00:07:24,819
isn't if you think about it or if if you

164

00:07:21,670 --> 00:07:27,370
don't understand things that are not

165

00:07:24,819 --> 00:07:30,069
good science if you can't pick out the

166

00:07:27,370 --> 00:07:32,050
flaws in a study that's not good science

167

00:07:30,069 --> 00:07:34,599
how could you ever be sure that

168

00:07:32,050 --> 00:07:38,050
something was a flawed didn't have those

169

00:07:34,600 --> 00:07:42,610
flaws and was good science and the other

170

00:07:38,050 --> 00:07:45,310
reason is that a lot of the alternative

171

00:07:42,610 --> 00:07:47,560
medicine modalities claim that they're

172
00:07:45,310 --> 00:07:50,019
based on science and they're not and I

173
00:07:47,560 --> 00:07:52,810
wanted people to understand what's wrong

174
00:07:50,019 --> 00:07:54,579
with their claims it's a very good point

175
00:07:52,810 --> 00:07:57,399
because especially a lot of the people I

176
00:07:54,579 --> 00:07:59,500
run into in the famous mind body spirit

177
00:07:57,399 --> 00:08:01,449
or mind-body wallet festivals will claim

178
00:07:59,500 --> 00:08:03,370
that their modality no matter how

179
00:08:01,449 --> 00:08:06,250
far-fetched and crazy it appears to us

180
00:08:03,370 --> 00:08:08,439
they'll claim it's it's science or its

181
00:08:06,250 --> 00:08:10,930
emerging science or something science

182
00:08:08,439 --> 00:08:13,719
has yet to catch up on and this whole

183
00:08:10,930 --> 00:08:16,540
idea about has yet to be discovered by

184
00:08:13,720 --> 00:08:19,210
science has taken up by you in one of

185
00:08:16,540 --> 00:08:22,600
the lectures on something that goals me

186
00:08:19,209 --> 00:08:23,739
endlessly which is energy medicine can

187
00:08:22,600 --> 00:08:28,810
you tell us something about energy

188
00:08:23,740 --> 00:08:31,569
medicine well it's based on a myth are

189
00:08:28,810 --> 00:08:33,668
they believe that there are energies

190
00:08:31,569 --> 00:08:36,158
that haven't been detected by science

191
00:08:33,668 --> 00:08:38,408
yet but I just finished reading a

192
00:08:36,158 --> 00:08:41,259
wonderful book by Lisa Randall about how

193
00:08:38,408 --> 00:08:43,240
dark matter killed the dinosaurs and we

194
00:08:41,259 --> 00:08:45,730
know that there is dark matter and dark

195
00:08:43,240 --> 00:08:47,799
energy out there in the universe and we

196
00:08:45,730 --> 00:08:50,409
can measure it indirectly and understand

197
00:08:47,799 --> 00:08:53,919
things about it and we can measure the

198
00:08:50,409 --> 00:08:57,159
energies of subatomic particles down to

199
00:08:53,919 --> 00:08:58,990
just infinitesimally small levels the

200

00:08:57,159 --> 00:09:01,120
idea that there is a human energy field

201
00:08:58,990 --> 00:09:03,220
that we just haven't been able to

202
00:09:01,120 --> 00:09:06,100
measure yet is it's just totally

203
00:09:03,220 --> 00:09:09,399
ridiculous as far as I'm concerned yes

204
00:09:06,100 --> 00:09:11,170
but it's amazingly how it's amazing how

205
00:09:09,399 --> 00:09:14,860
strongly people will

206
00:09:11,169 --> 00:09:16,649
assume or believe or accept that there

207
00:09:14,860 --> 00:09:18,759
is this energy field they'll simply

208
00:09:16,649 --> 00:09:21,610
accept that as part of everyday life

209
00:09:18,759 --> 00:09:22,929
they'll build their health structure

210
00:09:21,610 --> 00:09:24,610
around and they'll build businesses

211
00:09:22,929 --> 00:09:26,620
around it we have aura cameras for

212
00:09:24,610 --> 00:09:28,690
example we have people who think that

213
00:09:26,620 --> 00:09:30,850
they can wave their hands around other

214
00:09:28,690 --> 00:09:32,440

people to tune their energies and feel

215

00:09:30,850 --> 00:09:34,750
the vibrations and all this sort of

216

00:09:32,440 --> 00:09:36,250
thing so I'm glad you've covered energy

217

00:09:34,750 --> 00:09:37,809
medicine in fact what I'll do now is

218

00:09:36,250 --> 00:09:42,190
I'll play a little clip from the very

219

00:09:37,809 --> 00:09:44,619
first lecture which is you talking about

220

00:09:42,190 --> 00:09:55,000
all the lectures in the series let me

221

00:09:44,620 --> 00:09:57,519
play that now hello and welcome I'm dr.

222

00:09:55,000 --> 00:10:00,039
Harriet hall also known as the skeptic

223

00:09:57,519 --> 00:10:02,698
and this is the first in a series of ten

224

00:10:00,039 --> 00:10:05,528
lectures about science-based medicine in

225

00:10:02,698 --> 00:10:08,019
this first lecture I'll explain what

226

00:10:05,528 --> 00:10:09,698
science-based medicine is why it's

227

00:10:08,019 --> 00:10:12,519
important and how it's different from

228

00:10:09,698 --> 00:10:14,289
evidence-based medicine in the second

229

00:10:12,519 --> 00:10:17,139
lecture i'll talk about medicine it

230

00:10:14,289 --> 00:10:20,528
isn't based on science complementary and

231

00:10:17,139 --> 00:10:23,230
alternative medicine or cam in lectures

232

00:10:20,528 --> 00:10:25,899
3 through 8 i'll cover individual topics

233

00:10:23,230 --> 00:10:28,420
in cam that claim to be science-based

234

00:10:25,899 --> 00:10:31,409
but that are not chiropractic

235

00:10:28,419 --> 00:10:34,289
acupuncture homeopathy naturopathy

236

00:10:31,409 --> 00:10:37,149
energy medicine and miscellaneous others

237

00:10:34,289 --> 00:10:39,819
in lecture 9 i'll talk about some of the

238

00:10:37,149 --> 00:10:41,649
pitfalls in clinical research why we

239

00:10:39,820 --> 00:10:44,350
can't take every published study at face

240

00:10:41,649 --> 00:10:46,870
value and how to tell if a study is good

241

00:10:44,350 --> 00:10:49,060
science and in the final lecture i'll

242

00:10:46,870 --> 00:10:50,948
talk about how science-based medicine is

243
00:10:49,059 --> 00:10:54,278
misunderstood in the media and in

244
00:10:50,948 --> 00:10:56,919
politics i've prepared a course guide to

245
00:10:54,278 --> 00:10:58,568
accompany these lectures it summarizes

246
00:10:56,919 --> 00:11:00,669
the important information from each

247
00:10:58,568 --> 00:11:03,338
lecture and includes references and

248
00:11:00,669 --> 00:11:06,039
suggestions for further reading so there

249
00:11:03,339 --> 00:11:07,269
we are folks there are 10 lectures 10

250
00:11:06,039 --> 00:11:10,360
lectures which is pretty impressive

251
00:11:07,269 --> 00:11:12,839
there are about half an hour 35 minutes

252
00:11:10,360 --> 00:11:16,060
apiece which is nice viewing it's easy

253
00:11:12,839 --> 00:11:18,819
viewing you don't it doesn't demand too

254
00:11:16,059 --> 00:11:21,549
much of you to sit through one subject

255
00:11:18,818 --> 00:11:24,879
for our hours on end and I understand

256
00:11:21,549 --> 00:11:27,039
they're also study notes yes I put to go

257

00:11:24,879 --> 00:11:29,320
a course guide I tried to summarize the

258
00:11:27,039 --> 00:11:30,969
main points from each lecture and put

259
00:11:29,320 --> 00:11:33,550
some of the references and some

260
00:11:30,970 --> 00:11:35,680
suggestions for further reading I think

261
00:11:33,549 --> 00:11:38,759
that's wonderful because I think this

262
00:11:35,679 --> 00:11:42,549
will be a very good introduction to

263
00:11:38,759 --> 00:11:45,819
students especially skeptics everywhere

264
00:11:42,549 --> 00:11:47,559
will definitely benefit I'm benefiting

265
00:11:45,820 --> 00:11:50,490
out of watching this series i've already

266
00:11:47,559 --> 00:11:52,869
started i'm enjoying it immensely it

267
00:11:50,490 --> 00:11:55,899
does a wonderful thing it will two

268
00:11:52,870 --> 00:11:57,610
wonderful things one it reminds me of

269
00:11:55,899 --> 00:11:59,590
things I've learned in the past and

270
00:11:57,610 --> 00:12:01,779
refreshes my memory but also I'm

271
00:11:59,590 --> 00:12:03,879

learning a lot and which is a great

272

00:12:01,779 --> 00:12:06,519

thing which is what something we all

273

00:12:03,879 --> 00:12:09,490

should do I bet you learned a lot when

274

00:12:06,519 --> 00:12:11,199

you were preparing these two I certainly

275

00:12:09,490 --> 00:12:13,090

did and that's the best way to learn

276

00:12:11,200 --> 00:12:16,720

things is to try to tell somebody else

277

00:12:13,090 --> 00:12:17,860

about them hey I suppose that's right we

278

00:12:16,720 --> 00:12:19,050

learn all sorts of interesting things

279

00:12:17,860 --> 00:12:21,340

like what's the difference between

280

00:12:19,049 --> 00:12:22,839

evidence-based medicine and science

281

00:12:21,340 --> 00:12:26,860

based medicine there's a good story

282

00:12:22,840 --> 00:12:30,129

about the scurvy and vitamin C and how

283

00:12:26,860 --> 00:12:32,139

that was remedied using science and not

284

00:12:30,129 --> 00:12:35,080

magic of course and things like that you

285

00:12:32,139 --> 00:12:37,629

talk about correlation naughty equaling

286
00:12:35,080 --> 00:12:39,460
causation all the goodies folks all the

287
00:12:37,629 --> 00:12:41,799
good stuffs there and as you heard

288
00:12:39,460 --> 00:12:43,570
Harriet discussed there's a homeopathy

289
00:12:41,799 --> 00:12:46,449
there's acupuncture there's all sorts of

290
00:12:43,570 --> 00:12:52,090
things now that website again folks is

291
00:12:46,450 --> 00:12:53,890
ww youtube.com / user / James Randi

292
00:12:52,090 --> 00:12:56,259
foundation or if you go to the show

293
00:12:53,889 --> 00:12:57,519
notes in this week's episode I certainly

294
00:12:56,259 --> 00:12:59,169
will link to it there and one of the

295
00:12:57,519 --> 00:13:01,929
other things that really caught my eye

296
00:12:59,169 --> 00:13:04,209
harried about this whole series is james

297
00:13:01,929 --> 00:13:09,129
randi sort of joins you for every

298
00:13:04,210 --> 00:13:12,730
episode yes hang up a james randi doll

299
00:13:09,129 --> 00:13:14,799
that he signed to me and it was on my

300
00:13:12,730 --> 00:13:16,840
bookcase and so we decided to have a

301
00:13:14,799 --> 00:13:18,669
little fun with it we moved it around in

302
00:13:16,840 --> 00:13:21,430
different places from one lecture to the

303
00:13:18,669 --> 00:13:23,769
next and one of them my husband

304
00:13:21,429 --> 00:13:26,019
suspended the doll upside down to

305
00:13:23,769 --> 00:13:27,759
commemorate those escapes that Randy be

306
00:13:26,019 --> 00:13:30,009
everybody was put in a straitjacket and

307
00:13:27,759 --> 00:13:32,950
dangled from a helicopter and so forth I

308
00:13:30,009 --> 00:13:34,569
think that's fantastic and just viewing

309
00:13:32,950 --> 00:13:38,230
the page

310
00:13:34,570 --> 00:13:40,600
at the moment those lectures have only

311
00:13:38,230 --> 00:13:43,029
been online for a matter of days I

312
00:13:40,600 --> 00:13:44,950
notice but already they're racking up

313
00:13:43,029 --> 00:13:47,259
views in the thousands and that's so

314

00:13:44,950 --> 00:13:49,090
encouraging that is so encouraged I'm so

315
00:13:47,259 --> 00:13:50,379
pleased to do it I guess it was an

316
00:13:49,090 --> 00:13:52,300
interesting process to put those

317
00:13:50,379 --> 00:13:54,279
together you are in your own home with a

318
00:13:52,299 --> 00:13:56,229
little camera set up did you have

319
00:13:54,279 --> 00:13:59,799
something like a teleprompter or an

320
00:13:56,230 --> 00:14:02,830
autocue well we had kind of a jury rig

321
00:13:59,799 --> 00:14:05,319
setup I had they text of everything I

322
00:14:02,830 --> 00:14:08,110
wanted to say in the note section of my

323
00:14:05,320 --> 00:14:10,720
powerpoint presentation so we have that

324
00:14:08,110 --> 00:14:13,509
out on a big computer screen in front of

325
00:14:10,720 --> 00:14:15,519
me and we mounted the camera just above

326
00:14:13,509 --> 00:14:18,189
it so I could read my notes and it

327
00:14:15,519 --> 00:14:21,639
looked like I was talking to the camera

328
00:14:18,190 --> 00:14:23,590

it works very well I I would have

329

00:14:21,639 --> 00:14:27,100

assumed watching it that you had a

330

00:14:23,590 --> 00:14:29,080

proper professional teleprompter rig

331

00:14:27,100 --> 00:14:30,519

setup because you read the notes so well

332

00:14:29,080 --> 00:14:31,990

and you you're still looking at the

333

00:14:30,519 --> 00:14:34,269

camera I think that that was very well

334

00:14:31,990 --> 00:14:38,200

done Harriet very well done full marks

335

00:14:34,269 --> 00:14:42,159

for that thank you so folks don't delay

336

00:14:38,200 --> 00:14:43,840

this is a must for every skeptic out

337

00:14:42,159 --> 00:14:45,610

there interested in science based

338

00:14:43,840 --> 00:14:48,210

medicine and all those alternative

339

00:14:45,610 --> 00:14:51,100

medicine practices Harriet covers

340

00:14:48,210 --> 00:14:52,810

youtube.com / user / James Randi

341

00:14:51,100 --> 00:14:54,940

foundation Thank You Harriet thank you

342

00:14:52,809 --> 00:14:57,250

so much for spending time to talk to us

343
00:14:54,940 --> 00:14:59,290
on the skeptic zone but really thank you

344
00:14:57,250 --> 00:15:01,990
for taking the time to put this series

345
00:14:59,289 --> 00:15:03,969
together thank you for helping me

346
00:15:01,990 --> 00:15:05,620
publicize it I hope it gets the word out

347
00:15:03,970 --> 00:15:08,350
to a lot of people that need to hear

348
00:15:05,620 --> 00:15:11,740
that information but now actually the

349
00:15:08,350 --> 00:15:13,720
and sincerely I think it's great it's a

350
00:15:11,740 --> 00:15:14,950
really good series and I think it's

351
00:15:13,720 --> 00:15:17,830
going to be a valuable resource for

352
00:15:14,950 --> 00:15:20,040
years to come ok well thank you very

353
00:15:17,830 --> 00:15:20,040
much

354
00:15:37,129 --> 00:15:43,110
hello Richard and all the listeners of

355
00:15:40,169 --> 00:15:46,049
skeptic zone my name is Ron levy and I'm

356
00:15:43,110 --> 00:15:47,940
the producer and co-host of curious mind

357
00:15:46,049 --> 00:15:54,870
it's a podcast about science technology

358
00:15:47,940 --> 00:15:57,089
and history at wwc em-pod cmp OD dot net

359
00:15:54,870 --> 00:15:59,339
each episode will bring you interesting

360
00:15:57,089 --> 00:16:01,829
stories from a wide range of subjects

361
00:15:59,339 --> 00:16:04,500
from physics to astronomy and medicine

362
00:16:01,828 --> 00:16:06,479
from arts to science fiction we strive

363
00:16:04,500 --> 00:16:08,789
for the highest production values both

364
00:16:06,480 --> 00:16:11,430
in content and in delivery we already

365
00:16:08,789 --> 00:16:13,889
have on the air episodes about German

366
00:16:11,429 --> 00:16:16,409
u-boats in Second World War about the

367
00:16:13,889 --> 00:16:19,649
history of x-rays and the war of

368
00:16:16,409 --> 00:16:24,919
currents between Tesla and Edison come

369
00:16:19,649 --> 00:16:24,919
and have a listen wwwcom pod

370
00:16:40,899 --> 00:16:55,009
it's the raw skeptic report with ID

371

00:16:44,899 --> 00:16:56,899
Robertson hi everyone hardy Robertson

372
00:16:55,009 --> 00:16:59,659
from the Northern Rivers vaccination

373
00:16:56,899 --> 00:17:02,360
supporters coming to you today from the

374
00:16:59,659 --> 00:17:06,349
popular tourist destination of crystal

375
00:17:02,360 --> 00:17:08,870
castle in northern New South Wales one

376
00:17:06,349 --> 00:17:11,990
day I will do a skeptic zone report on

377
00:17:08,869 --> 00:17:15,019
some of the items for sale here but for

378
00:17:11,990 --> 00:17:18,920
today I'm just enjoying the sunshine and

379
00:17:15,019 --> 00:17:20,150
the beautiful gardens this report is

380
00:17:18,920 --> 00:17:23,269
another in my series of

381
00:17:20,150 --> 00:17:25,360
vaccine-preventable diseases I'm going

382
00:17:23,269 --> 00:17:27,920
to talk about meningococcal disease and

383
00:17:25,359 --> 00:17:31,039
include an interview I did a few weeks

384
00:17:27,920 --> 00:17:33,080
ago with Marty Mabry a survivor of

385
00:17:31,039 --> 00:17:36,109

meningococcal disease who has a

386

00:17:33,079 --> 00:17:39,470

frightening and yet inspiring story to

387

00:17:36,109 --> 00:17:42,159

share all references for the following

388

00:17:39,470 --> 00:17:48,890

information can be found on our website

389

00:17:42,160 --> 00:17:52,790

ww nrvs info firstly some facts about

390

00:17:48,890 --> 00:17:54,920

the disease meningococcal is a bacteria

391

00:17:52,789 --> 00:17:58,099

of which there are thirteen main

392

00:17:54,920 --> 00:18:02,750

subtypes in Australia the most common

393

00:17:58,099 --> 00:18:05,750

types are B and C meningococcal can

394

00:18:02,750 --> 00:18:10,808

cause two broad types of very serious

395

00:18:05,750 --> 00:18:13,759

disease meningitis and septicaemia

396

00:18:10,808 --> 00:18:16,670

meningitis means infection primarily of

397

00:18:13,759 --> 00:18:19,429

the lining of the brain and septicemia

398

00:18:16,670 --> 00:18:23,210

occurs when a bacterial infection enters

399

00:18:19,429 --> 00:18:26,179

the bloodstream meningitis can lead to

400
00:18:23,210 --> 00:18:29,360
septicemia and septicemia can lead to

401
00:18:26,179 --> 00:18:32,480
meningitis but often especially early on

402
00:18:29,359 --> 00:18:36,589
in the infection one type of disease is

403
00:18:32,480 --> 00:18:38,960
dominant there are many other causes of

404
00:18:36,589 --> 00:18:41,808
meningitis and septicaemia other than

405
00:18:38,960 --> 00:18:43,160
meningococcal but this bacteria causes

406
00:18:41,808 --> 00:18:47,149
particularly dangerous

407
00:18:43,160 --> 00:18:49,700
versions of these diseases once infected

408
00:18:47,150 --> 00:18:52,100
about ten to fifteen percent of

409
00:18:49,700 --> 00:18:55,819
otherwise fit and healthy young people

410
00:18:52,099 --> 00:18:59,299
will die often within hours or days of

411
00:18:55,819 --> 00:19:02,000
becoming unwell of those that survived

412
00:18:59,299 --> 00:19:05,500
the disease twenty to thirty percent end

413
00:19:02,000 --> 00:19:08,829
up permanently disabled with lost limbs

414
00:19:05,500 --> 00:19:13,339
hearing sight and/or permanent

415
00:19:08,829 --> 00:19:16,699
neurological dysfunction meningococcal

416
00:19:13,339 --> 00:19:18,439
disease is scary and it is important to

417
00:19:16,700 --> 00:19:20,870
be vigilant for the signs of such a

418
00:19:18,440 --> 00:19:23,779
dangerous disease as early treatment

419
00:19:20,869 --> 00:19:27,739
such as antibiotics can literally be the

420
00:19:23,779 --> 00:19:30,549
difference between life or death in

421
00:19:27,740 --> 00:19:34,120
older children and adults be alert for

422
00:19:30,549 --> 00:19:37,750
fever possibly with cold hands and feet

423
00:19:34,119 --> 00:19:39,949
vomiting headache neck stiffness

424
00:19:37,750 --> 00:19:44,500
discomfort when looking at bright lights

425
00:19:39,950 --> 00:19:48,190
or photophobia aching or sore muscles

426
00:19:44,500 --> 00:19:52,400
painful or swollen joints fitting

427
00:19:48,190 --> 00:19:56,809
moaning unintelligible speech drowsiness

428

00:19:52,400 --> 00:20:00,110
and confusion collapse rash of red or

429
00:19:56,809 --> 00:20:03,619
purple pinpoint spots or larger bruises

430
00:20:00,109 --> 00:20:05,509
in babies who obviously can't tell you

431
00:20:03,619 --> 00:20:08,359
that they have sore joints or headaches

432
00:20:05,509 --> 00:20:12,129
and neck stiffness additional signs to

433
00:20:08,359 --> 00:20:14,809
watch for are refusing feeds or vomiting

434
00:20:12,130 --> 00:20:17,960
irritability fretfulness grunting

435
00:20:14,809 --> 00:20:21,440
moaning or whimpering difficult to wake

436
00:20:17,960 --> 00:20:25,579
floppy a dislike of being handled

437
00:20:21,440 --> 00:20:27,350
arching back and stiff neck not all of

438
00:20:25,579 --> 00:20:31,159
these symptoms may be present and they

439
00:20:27,349 --> 00:20:34,129
may appear in any order so how

440
00:20:31,160 --> 00:20:36,110
contagious is it up to about twenty-five

441
00:20:34,130 --> 00:20:37,790
percent of the population live with the

442
00:20:36,109 --> 00:20:39,649

bacteria in the mucous of their

443

00:20:37,789 --> 00:20:43,220
respiratory tract without it causing

444

00:20:39,650 --> 00:20:46,190
disease it is passed between individuals

445

00:20:43,220 --> 00:20:49,460
by exchange of respiratory fluids for

446

00:20:46,190 --> 00:20:52,309
example kissing or by droplet spread

447

00:20:49,460 --> 00:20:54,980
coughing and sneezing passage between

448

00:20:52,309 --> 00:20:56,960
individuals is more likely where groups

449

00:20:54,980 --> 00:20:59,450
of susceptible people crowd

450

00:20:56,960 --> 00:21:01,548
gather for example childcare centers

451

00:20:59,450 --> 00:21:03,890
with babies and toddlers sharing toys

452

00:21:01,548 --> 00:21:07,129
and drink bottles or dummies or in

453

00:21:03,890 --> 00:21:10,669
schools on camps universities and dorms

454

00:21:07,130 --> 00:21:12,799
army barracks and in some individuals it

455

00:21:10,669 --> 00:21:17,210
can then go on to cause devastating

456

00:21:12,798 --> 00:21:19,369
disease in Australia the vaccination

457
00:21:17,210 --> 00:21:22,819
schedule includes meningococcal see at

458
00:21:19,369 --> 00:21:26,058
12 months of age one dose of the men see

459
00:21:22,819 --> 00:21:28,278
vaccine is between 83 and one hundred

460
00:21:26,058 --> 00:21:30,889
percent effective and widespread

461
00:21:28,278 --> 00:21:33,349
vaccination programs have meant that the

462
00:21:30,890 --> 00:21:36,020
sea strain is now much rarer than in the

463
00:21:33,349 --> 00:21:39,038
past and the B strain has taken its

464
00:21:36,019 --> 00:21:42,500
place as the most prevalent here a

465
00:21:39,038 --> 00:21:45,019
vaccine for the B strain bexsero is

466
00:21:42,500 --> 00:21:49,069
available here on the private market but

467
00:21:45,019 --> 00:21:52,940
not yet on the schedule and now for

468
00:21:49,069 --> 00:21:56,089
Marty's story ok i'm here with Marty and

469
00:21:52,940 --> 00:21:58,130
marty first of all thank you for having

470
00:21:56,089 --> 00:21:59,808
me in your home in the northern rivers

471
00:21:58,130 --> 00:22:02,750
and thank you for talking to me on the

472
00:21:59,808 --> 00:22:05,210
skeptical zone no friends at all somali i

473
00:22:02,750 --> 00:22:07,250
believe you are northern rivers born and

474
00:22:05,210 --> 00:22:09,409
bred you grew up in barn Bay's at right

475
00:22:07,250 --> 00:22:12,470
that's great yeah so I grew up in Bombay

476
00:22:09,409 --> 00:22:14,510
and I've been away a little bit but yes

477
00:22:12,470 --> 00:22:16,490
been most my life in do ok and when you

478
00:22:14,509 --> 00:22:19,190
were growing up we use sort of aware of

479
00:22:16,490 --> 00:22:20,808
the low vaccination rates in the air was

480
00:22:19,190 --> 00:22:22,909
that a thing when you were growing up or

481
00:22:20,808 --> 00:22:24,678
not particularly i didn't really have an

482
00:22:22,909 --> 00:22:26,870
awareness of it i think it's probably

483
00:22:24,679 --> 00:22:28,669
being since coming back to the area that

484
00:22:26,869 --> 00:22:30,048
I've learned more about it but yeah

485

00:22:28,669 --> 00:22:32,480
growing up I didn't really know much

486
00:22:30,048 --> 00:22:34,819
about it at all yeah it's it's funny I

487
00:22:32,480 --> 00:22:36,620
and a few of my friends that live in the

488
00:22:34,819 --> 00:22:39,319
area as well when we first moved here

489
00:22:36,619 --> 00:22:41,599
not having grown up in the area we also

490
00:22:39,319 --> 00:22:43,579
came to the area and not having any idea

491
00:22:41,599 --> 00:22:46,189
that the vaccination rates was so low

492
00:22:43,579 --> 00:22:48,259
and it was only after having kids of our

493
00:22:46,190 --> 00:22:51,140
own and realizing what the situation was

494
00:22:48,259 --> 00:22:54,140
so when you're a teenager correct me if

495
00:22:51,140 --> 00:22:56,960
i'm wrong i think it was 2002 you

496
00:22:54,140 --> 00:22:59,538
contracted meningococcal it was the base

497
00:22:56,960 --> 00:23:01,840
drain wasn't it that you contracted can

498
00:22:59,538 --> 00:23:04,190
you sort of share with us what the

499
00:23:01,839 --> 00:23:06,888

circumstances were that that led up to

500

00:23:04,190 --> 00:23:09,140

you contracting the disease sure so I

501

00:23:06,888 --> 00:23:11,179

was actually in year 11 and I

502

00:23:09,140 --> 00:23:14,000

been on a school ski trip for a week

503

00:23:11,180 --> 00:23:17,720

down to south of Sydney to the snow

504

00:23:14,000 --> 00:23:20,119

fields and had got back after you know

505

00:23:17,720 --> 00:23:23,569

quite a long kind of bus trip and was

506

00:23:20,119 --> 00:23:26,029

pretty run down and felt you know been

507

00:23:23,569 --> 00:23:29,990

unwell at school you know headache sore

508

00:23:26,029 --> 00:23:32,899

joints went home took a couple of had it

509

00:23:29,990 --> 00:23:35,690

all and went to sleep and woke up very

510

00:23:32,900 --> 00:23:38,900

unwell next morning but it was really

511

00:23:35,690 --> 00:23:40,730

just you know after a big kind of a trip

512

00:23:38,900 --> 00:23:42,980

well it was the long week with not much

513

00:23:40,730 --> 00:23:45,289

sleep we're all quite rundown and all

514
00:23:42,980 --> 00:23:48,559
staying in close quarters in bunk beds

515
00:23:45,289 --> 00:23:51,379
in this accommodation at the snow at the

516
00:23:48,559 --> 00:23:54,619
time did anyone else on that trip come

517
00:23:51,380 --> 00:23:56,900
down with it you have any idea where you

518
00:23:54,619 --> 00:24:00,469
have what came about that you picked it

519
00:23:56,900 --> 00:24:02,360
up not particularly so no one else got

520
00:24:00,470 --> 00:24:04,970
sick on the trip they're all treated

521
00:24:02,359 --> 00:24:08,419
with antibiotics mm-hmm afterwards or

522
00:24:04,970 --> 00:24:11,180
when I when I fell ill and the subtype

523
00:24:08,420 --> 00:24:13,519
that I got had not been identified in

524
00:24:11,180 --> 00:24:15,590
Australia yet so I mean that's not to

525
00:24:13,519 --> 00:24:19,250
say that it wasn't there but it was

526
00:24:15,589 --> 00:24:20,779
there wasn't really a clear as is the

527
00:24:19,250 --> 00:24:22,250
case quite often that you don't exactly

528
00:24:20,779 --> 00:24:24,500
know where it's come from what who is

529
00:24:22,250 --> 00:24:27,339
transmitted it to you so I think that

530
00:24:24,500 --> 00:24:30,890
I've the statistic says something like

531
00:24:27,339 --> 00:24:34,009
one in four or five people actually

532
00:24:30,890 --> 00:24:35,870
carry the bacteria in their throats and

533
00:24:34,009 --> 00:24:39,589
noses is that right just doesn't cause

534
00:24:35,869 --> 00:24:40,969
usually any problems until when does it

535
00:24:39,589 --> 00:24:42,799
become a problem if one in five people

536
00:24:40,970 --> 00:24:44,509
are carrying the bacteria around when

537
00:24:42,799 --> 00:24:47,539
does it become a problem for themselves

538
00:24:44,509 --> 00:24:49,849
or others so a lot of people will say

539
00:24:47,539 --> 00:24:51,769
yeah you're right between ten percent

540
00:24:49,849 --> 00:24:53,509
and twenty percent of people can carry

541
00:24:51,769 --> 00:24:55,869
the bacteria in their nose and throat

542

00:24:53,509 --> 00:24:59,089
and be colonized is that they say

543
00:24:55,869 --> 00:25:00,529
without you know you'd ever causing a

544
00:24:59,089 --> 00:25:03,859
problem you know it's quite a rare

545
00:25:00,529 --> 00:25:05,629
disease to contract my understanding is

546
00:25:03,859 --> 00:25:08,740
that the people who are actually going

547
00:25:05,630 --> 00:25:11,570
to become unwell with it will actually

548
00:25:08,740 --> 00:25:13,789
get the disease quite quickly they won't

549
00:25:11,569 --> 00:25:17,119
remain colonized for a period and then

550
00:25:13,789 --> 00:25:18,319
somehow four-wheel but you're right i

551
00:25:17,119 --> 00:25:18,899
mean that there are a lot of people in

552
00:25:18,319 --> 00:25:21,269
the community

553
00:25:18,900 --> 00:25:23,490
powering the bug in their nose and

554
00:25:21,269 --> 00:25:25,650
throws and but will never be affected by

555
00:25:23,490 --> 00:25:28,380
it I never know that they're carrying it

556
00:25:25,650 --> 00:25:30,900

is right hmm okay take us through the

557

00:25:28,380 --> 00:25:33,030

story from when you woke up very unwell

558

00:25:30,900 --> 00:25:34,980

the next morning did you feel yourself

559

00:25:33,029 --> 00:25:36,690

were you aware at that point that there

560

00:25:34,980 --> 00:25:38,849

was something very serious going on or

561

00:25:36,690 --> 00:25:42,240

did you still think it's a bit of a cold

562

00:25:38,849 --> 00:25:44,429

flu type thing I I mean I'd never heard

563

00:25:42,240 --> 00:25:46,380

of meningococcal and I and I didn't have

564

00:25:44,430 --> 00:25:49,799

much awareness of infectious diseases or

565

00:25:46,380 --> 00:25:51,870

anything at the time I woke up and in

566

00:25:49,799 --> 00:25:53,549

hindsight I was quite confused overnight

567

00:25:51,869 --> 00:25:56,909

with high fevers and I woke up not

568

00:25:53,549 --> 00:25:59,220

knowing how serious it was at all really

569

00:25:56,910 --> 00:26:01,110

and so I was taking the bombay hospital

570

00:25:59,220 --> 00:26:04,620

and then quickly transferred to lismore

571
00:26:01,109 --> 00:26:06,359
base hospital and you know in there ed

572
00:26:04,619 --> 00:26:09,000
they kind of started treatment and then

573
00:26:06,359 --> 00:26:11,939
I was actually induced into economy and

574
00:26:09,000 --> 00:26:14,730
taken away see you and so this whole

575
00:26:11,940 --> 00:26:17,070
time I had no idea how unwell i was and

576
00:26:14,730 --> 00:26:19,529
i had no no I wanted said to me all

577
00:26:17,069 --> 00:26:21,869
you've got x chance of surviving or

578
00:26:19,529 --> 00:26:23,879
dying at all because I mean they may

579
00:26:21,869 --> 00:26:25,919
have said it but I was not comprehending

580
00:26:23,880 --> 00:26:28,230
what was happening particularly anyway

581
00:26:25,920 --> 00:26:31,710
so it was all a bit of a kind of blur

582
00:26:28,230 --> 00:26:33,329
for me yeah and and at that point say

583
00:26:31,710 --> 00:26:36,539
you had all this sort of cold and flu

584
00:26:33,329 --> 00:26:39,269
symptoms and obviously disorientation

585
00:26:36,539 --> 00:26:40,980
and confusion and and that's when they

586
00:26:39,269 --> 00:26:43,529
diagnosed you and put you into the

587
00:26:40,980 --> 00:26:46,470
induced coma so you you wouldn't have

588
00:26:43,529 --> 00:26:48,299
been aware until you woke up really that

589
00:26:46,470 --> 00:26:51,299
you had meningococcal is that right

590
00:26:48,299 --> 00:26:53,669
exactly right and so I had a you know a

591
00:26:51,299 --> 00:26:56,039
huge rash all over my body that you know

592
00:26:53,670 --> 00:26:57,870
you sometimes it because of big purple

593
00:26:56,039 --> 00:26:59,519
rash so what I mean once you get that

594
00:26:57,869 --> 00:27:01,289
point it's very clear what the what the

595
00:26:59,519 --> 00:27:03,599
cause is an ideal you pick it up before

596
00:27:01,289 --> 00:27:05,789
that but you're correct i didn't have

597
00:27:03,599 --> 00:27:07,769
any understanding of what had happened

598
00:27:05,789 --> 00:27:10,019
until i woke up a couple of weeks later

599

00:27:07,769 --> 00:27:12,269
really from that kind of looked like

600
00:27:10,019 --> 00:27:13,889
brought me out of that coma and then I

601
00:27:12,269 --> 00:27:16,559
was they kind of told me what happened

602
00:27:13,890 --> 00:27:18,990
and that's what well a couple of weeks

603
00:27:16,559 --> 00:27:22,649
hmm what actually happens in the body

604
00:27:18,990 --> 00:27:25,380
when the bacteria takes hold you

605
00:27:22,650 --> 00:27:27,390
mentioned that the purple rash which I

606
00:27:25,380 --> 00:27:29,070
think it's one of the later stages of

607
00:27:27,390 --> 00:27:31,259
the diseases and it's over by the time

608
00:27:29,069 --> 00:27:32,700
you actually notice that rash that's not

609
00:27:31,259 --> 00:27:35,129
one of the first symptoms

610
00:27:32,700 --> 00:27:36,450
you see what actually causes that rash

611
00:27:35,130 --> 00:27:39,420
what's happening in the body to cause

612
00:27:36,450 --> 00:27:42,240
that rash you are using the right it's a

613
00:27:39,420 --> 00:27:45,000

light sign or a light thing that happens

614

00:27:42,240 --> 00:27:48,589

in the course of the disease so as the

615

00:27:45,000 --> 00:27:52,200

bacteria enters the bloodstream it's it

616

00:27:48,589 --> 00:27:54,689

will multiply incredibly quickly and as

617

00:27:52,200 --> 00:27:57,990

a response to overwhelming infection

618

00:27:54,690 --> 00:27:59,610

your body will basically all the blood

619

00:27:57,990 --> 00:28:02,849

vessels in the periphery of your body

620

00:27:59,609 --> 00:28:05,279

will open up and you will actually end

621

00:28:02,849 --> 00:28:09,240

up with a rash which you're essentially

622

00:28:05,279 --> 00:28:11,339

bleeding into your skin because the the

623

00:28:09,240 --> 00:28:13,319

way the infection takes hold will

624

00:28:11,339 --> 00:28:15,539

actually use up a lot of the factors in

625

00:28:13,319 --> 00:28:18,210

your blood which allow it to clot and so

626

00:28:15,539 --> 00:28:20,369

you will end up kind of bleeding into

627

00:28:18,210 --> 00:28:23,009

your tissues and when you're in that

628
00:28:20,369 --> 00:28:26,489
late stage with that very widespread

629
00:28:23,009 --> 00:28:31,349
purple rash it's a quite a dire sign and

630
00:28:26,490 --> 00:28:33,000
and if if you do come to hospital that

631
00:28:31,349 --> 00:28:34,919
point they say that your chances of

632
00:28:33,000 --> 00:28:37,740
survival are quite low because you're

633
00:28:34,920 --> 00:28:38,940
exactly right it's a very late hmm part

634
00:28:37,740 --> 00:28:40,799
of the disease and so the disease

635
00:28:38,940 --> 00:28:42,420
process is already kind of well and

636
00:28:40,799 --> 00:28:44,730
truly kicking it's well and truly

637
00:28:42,420 --> 00:28:46,680
throughout your body and so that purple

638
00:28:44,730 --> 00:28:48,960
rash that we see under their skin in the

639
00:28:46,680 --> 00:28:52,470
pictures that we see is actually blood

640
00:28:48,960 --> 00:28:54,299
underneath the skin I guess a good tip

641
00:28:52,470 --> 00:28:57,450
for people as well is that it's a non

642
00:28:54,299 --> 00:29:00,899
blanching rash as in I was always taught

643
00:28:57,450 --> 00:29:03,330
to the glass test it was called so can

644
00:29:00,900 --> 00:29:05,340
you explain what what that's about so

645
00:29:03,329 --> 00:29:08,309
you're exactly right it's called a non

646
00:29:05,339 --> 00:29:09,929
blanching ration basically it's a fancy

647
00:29:08,309 --> 00:29:13,559
way of saying that when you can press

648
00:29:09,930 --> 00:29:15,240
the skin the rash won't disappear so if

649
00:29:13,559 --> 00:29:17,940
you use a glass which you can see

650
00:29:15,240 --> 00:29:20,160
through and you compress over or you put

651
00:29:17,940 --> 00:29:23,940
pressure over one of these small red

652
00:29:20,160 --> 00:29:25,350
areas it will remain there even with the

653
00:29:23,940 --> 00:29:28,019
pressure whereas a lot of other rashes

654
00:29:25,349 --> 00:29:30,449
will disappear I mean it's not one of

655
00:29:28,019 --> 00:29:32,460
those things that's absolutely you know

656

00:29:30,450 --> 00:29:35,850
one hundred percent to say that if the

657
00:29:32,460 --> 00:29:38,400
rash is a blanching rash then you're

658
00:29:35,849 --> 00:29:41,369
Your Honor in the clear but it's a good

659
00:29:38,400 --> 00:29:44,009
one to kind of have in mind it's just

660
00:29:41,369 --> 00:29:46,619
another tool I surprise yeah tell me

661
00:29:44,009 --> 00:29:49,230
what they when you are in the induced

662
00:29:46,619 --> 00:29:52,259
coma what were your parents told what

663
00:29:49,230 --> 00:29:53,610
your chances of survival were pretty low

664
00:29:52,259 --> 00:29:56,308
so I think they went through a lot more

665
00:29:53,609 --> 00:29:58,229
than I did I think when I was brought

666
00:29:56,308 --> 00:30:01,230
into hospital everyone recognized that I

667
00:29:58,230 --> 00:30:05,130
was very unwell and my parents were told

668
00:30:01,230 --> 00:30:07,140
I believe initially you know maybe five

669
00:30:05,130 --> 00:30:10,169
to ten percent chance of survival and

670
00:30:07,140 --> 00:30:12,390

then when i had my legs amputated i had

671

00:30:10,169 --> 00:30:14,070

other issues with bleeding and so that

672

00:30:12,390 --> 00:30:18,240

again was a bit of a kind of scary

673

00:30:14,069 --> 00:30:21,808

period for them but they they went

674

00:30:18,240 --> 00:30:25,079

through probably 72 hours 48 72 hours

675

00:30:21,808 --> 00:30:26,639

where you know we hadn't quite turned

676

00:30:25,079 --> 00:30:29,819

around yet and they was still very

677

00:30:26,640 --> 00:30:32,788

unsure as to whether i would survive my

678

00:30:29,819 --> 00:30:35,279

frightening time yeah so both legs

679

00:30:32,788 --> 00:30:37,259

amputated did that that that happened

680

00:30:35,279 --> 00:30:41,069

whilst you were in the induced coma it

681

00:30:37,259 --> 00:30:43,950

did so basically they you know they

682

00:30:41,069 --> 00:30:45,418

brought me to ICU and and stabilize my

683

00:30:43,950 --> 00:30:47,880

blood pressure and all those things that

684

00:30:45,419 --> 00:30:52,640

kind of just go hey why when your ground

685
00:30:47,880 --> 00:30:55,620
well and as a consequence of the disease

686
00:30:52,640 --> 00:30:59,340
my feet the the kind of tissue in my

687
00:30:55,619 --> 00:31:01,739
feet died so they were trying to you

688
00:30:59,339 --> 00:31:04,439
know save and protect as much of that as

689
00:31:01,740 --> 00:31:06,329
I because they could but when it became

690
00:31:04,440 --> 00:31:08,130
clear that leaving them on was just

691
00:31:06,329 --> 00:31:11,158
gonna you know poison me a set

692
00:31:08,130 --> 00:31:12,480
effectively I'm not sure the exact

693
00:31:11,159 --> 00:31:14,909
timing but it would have been in the

694
00:31:12,480 --> 00:31:17,099
first few days I believe that they made

695
00:31:14,909 --> 00:31:19,860
the decision to imitate my later so that

696
00:31:17,099 --> 00:31:21,719
was I wasn't aware of that really until

697
00:31:19,859 --> 00:31:23,658
although it's interesting actually had

698
00:31:21,720 --> 00:31:26,850
some awareness of what was going on

699
00:31:23,659 --> 00:31:28,980
during this coma because it's a you know

700
00:31:26,849 --> 00:31:33,119
it's used to date it effectively it's

701
00:31:28,980 --> 00:31:35,579
not as heavy as some general anesthetics

702
00:31:33,119 --> 00:31:36,689
I as such funny as it sounds I had to

703
00:31:35,579 --> 00:31:40,259
actually knew that that had happened

704
00:31:36,690 --> 00:31:42,210
while I was in this cone Mona and I woke

705
00:31:40,259 --> 00:31:44,879
up you know they kind of told me at that

706
00:31:42,210 --> 00:31:47,250
point which I believe that I already

707
00:31:44,880 --> 00:31:48,039
kind of knew what had happened some

708
00:31:47,250 --> 00:31:51,278
degree which

709
00:31:48,038 --> 00:31:53,979
well it sounds silly to say but it would

710
00:31:51,278 --> 00:31:56,200
have been a huge process at journey for

711
00:31:53,979 --> 00:31:58,690
you then to come to terms with that and

712
00:31:56,200 --> 00:32:00,999
also the the rehabilitation process as

713

00:31:58,690 --> 00:32:05,019
well definitely and I saw what I didn't

714
00:32:00,999 --> 00:32:07,509
know when they when I woke up and what

715
00:32:05,019 --> 00:32:10,659
was a real shock was how close I was to

716
00:32:07,509 --> 00:32:13,659
dying so that five to ten percent thing

717
00:32:10,659 --> 00:32:17,769
I mean I had no idea but you did recover

718
00:32:13,659 --> 00:32:20,889
very well and I believe that 2010 was a

719
00:32:17,769 --> 00:32:22,388
particularly busy and successful year

720
00:32:20,888 --> 00:32:26,378
for you can you share with us what

721
00:32:22,388 --> 00:32:28,478
happened in 2010 certainly so I had

722
00:32:26,378 --> 00:32:30,748
always been a skier before this it all

723
00:32:28,479 --> 00:32:34,419
happened and I got involved in

724
00:32:30,749 --> 00:32:37,598
Paralympic sports after I am a bit empty

725
00:32:34,419 --> 00:32:40,419
at it so I've been skiing from about

726
00:32:37,598 --> 00:32:43,479
2000 and 3000 and four and going to

727
00:32:40,419 --> 00:32:45,369

Torino pelvic games and on to Vancouver

728

00:32:43,479 --> 00:32:48,249

pound of the games and won a silver

729

00:32:45,368 --> 00:32:51,699

medal there in the downhill event of a

730

00:32:48,249 --> 00:32:54,639

power plants king and started medicine

731

00:32:51,700 --> 00:32:58,090

that year started studying medicine and

732

00:32:54,638 --> 00:33:00,128

also got married in 2010 it was a big

733

00:32:58,089 --> 00:33:01,538

year it must be difficult for you not

734

00:33:00,128 --> 00:33:04,209

only on a professional level but a

735

00:33:01,538 --> 00:33:07,419

personal level to to have patients that

736

00:33:04,210 --> 00:33:10,808

refuse vaccinations after what you have

737

00:33:07,419 --> 00:33:13,269

the personal cost has been to you is

738

00:33:10,808 --> 00:33:15,098

there ever a time when you have shared

739

00:33:13,269 --> 00:33:17,470

your story with those patients and have

740

00:33:15,098 --> 00:33:18,908

they been swayed at all by it a lot of

741

00:33:17,470 --> 00:33:21,339

the time it's amazing people will

742
00:33:18,909 --> 00:33:23,080
completely turn around and say you're

743
00:33:21,339 --> 00:33:26,470
right you know I've never thought of it

744
00:33:23,079 --> 00:33:28,358
like that and then hopefully hmm go and

745
00:33:26,470 --> 00:33:30,548
vaccinate their children yeah so it's

746
00:33:28,358 --> 00:33:33,638
it's such an important thing for us all

747
00:33:30,548 --> 00:33:35,348
to have those conversations and make

748
00:33:33,638 --> 00:33:37,658
sure that the information out there is

749
00:33:35,348 --> 00:33:39,788
the correct information and I guess to

750
00:33:37,659 --> 00:33:41,950
correct any misinformation we see on

751
00:33:39,788 --> 00:33:43,658
social media and in our circle of

752
00:33:41,950 --> 00:33:46,298
friends and start getting the

753
00:33:43,659 --> 00:33:48,129
conversations going Thank You Marty for

754
00:33:46,298 --> 00:33:50,950
your time and for having me in your home

755
00:33:48,128 --> 00:33:53,439
we've had a few whipper snipper noises

756
00:33:50,950 --> 00:33:56,080
in the background and some birds and but

757
00:33:53,440 --> 00:33:57,759
you get that in the northern rivers so

758
00:33:56,079 --> 00:33:59,439
thank you very much for joining me Marty

759
00:33:57,759 --> 00:34:01,589
it's been a pleasure to speak with you

760
00:33:59,440 --> 00:34:04,140
and thank you you

761
00:34:01,589 --> 00:34:07,109
my brother that's all from me for this

762
00:34:04,140 --> 00:34:11,820
week you can find more information and

763
00:34:07,109 --> 00:34:13,618
get in touch with me at nrvs info or at

764
00:34:11,820 --> 00:34:16,950
our Facebook page Northern Rivers

765
00:34:13,619 --> 00:34:21,659
vaccination supporters or on Twitter at

766
00:34:16,949 --> 00:34:25,348
Heidi howdy but for now I'm off to enjoy

767
00:34:21,659 --> 00:34:40,470
a piece of gluten Laden chocolate cake

768
00:34:25,349 --> 00:34:42,750
from the bakery till next time welcome

769
00:34:40,469 --> 00:34:44,939
to a weakened science arias bringing

770

00:34:42,750 --> 00:34:47,699
years science you need to know it has

771
00:34:44,940 --> 00:34:49,740
been a weird year in science in 2015 and

772
00:34:47,699 --> 00:35:00,029
get ready to get freaky because this is

773
00:34:49,739 --> 00:35:02,098
our weird five of the year at number

774
00:35:00,030 --> 00:35:05,220
five we have the tastiest study of the

775
00:35:02,099 --> 00:35:07,530
year the science of how popcorn pops the

776
00:35:05,219 --> 00:35:09,809
critical temperature is 180 degrees

777
00:35:07,530 --> 00:35:12,150
Celsius when the internal pressure of

778
00:35:09,809 --> 00:35:15,000
the corn kernel reaches around 10 bar

779
00:35:12,150 --> 00:35:17,160
the jump is caused by a leg of molten

780
00:35:15,000 --> 00:35:19,050
starch pushing against the surface under

781
00:35:17,159 --> 00:35:23,819
the kernel and the sound is from the

782
00:35:19,050 --> 00:35:26,190
expulsion of pressurized gas bees love

783
00:35:23,820 --> 00:35:28,109
getting buzzed from caffeine caffeine

784
00:35:26,190 --> 00:35:31,139

aids nectar which some flowers produce

785

00:35:28,108 --> 00:35:33,869

is preferred by bees with them ignoring

786

00:35:31,139 --> 00:35:35,819

other non caffeinated actor even when

787

00:35:33,869 --> 00:35:38,190

the caffeinated stuff is all used up

788

00:35:35,820 --> 00:35:40,170

they are also more eager to tell the

789

00:35:38,190 --> 00:35:41,730

rest of the hive in fact they kind of

790

00:35:40,170 --> 00:35:46,200

acts like they're a little bit hyper

791

00:35:41,730 --> 00:35:48,420

active from the caffeine many humans

792

00:35:46,199 --> 00:35:51,059

like to have a bit of a tippie and now

793

00:35:48,420 --> 00:35:53,430

it's been observed some chimpanzees also

794

00:35:51,059 --> 00:35:55,320

like to get drunk chimps were seen to be

795

00:35:53,429 --> 00:35:57,719

climbing palm trees and drinking

796

00:35:55,320 --> 00:35:59,369

fermented alcoholic palm sap that the

797

00:35:57,719 --> 00:36:01,980

locals have been collecting from those

798

00:35:59,369 --> 00:36:04,800

trees they even worked out a way to use

799
00:36:01,980 --> 00:36:06,510
leaves to scoop the drink afterwards the

800
00:36:04,800 --> 00:36:08,769
chips were seem to be acting in a

801
00:36:06,510 --> 00:36:11,450
drunken way

802
00:36:08,769 --> 00:36:14,179
at number two is one that nobody

803
00:36:11,449 --> 00:36:16,489
believes you sniff your hand after a

804
00:36:14,179 --> 00:36:18,829
handshake to detect the odor of the

805
00:36:16,489 --> 00:36:21,109
other person the Israelis study used

806
00:36:18,829 --> 00:36:23,480
hidden cameras to find that people smell

807
00:36:21,110 --> 00:36:25,940
their hands twice as much after a

808
00:36:23,480 --> 00:36:28,039
handshake but they're sneaky about it it

809
00:36:25,940 --> 00:36:29,750
seems to be an unconscious movement to

810
00:36:28,039 --> 00:36:32,769
check out the other person's odor

811
00:36:29,750 --> 00:36:36,800
communication just trust me you do it

812
00:36:32,769 --> 00:36:38,780
and our weird science story of year

813
00:36:36,800 --> 00:36:41,330
people are surrounded by unique

814
00:36:38,780 --> 00:36:43,760
microbial cloud we're covered in

815
00:36:41,329 --> 00:36:46,519
bacteria and every time we move we shed

816
00:36:43,760 --> 00:36:48,560
some of our skin creating a cloud that

817
00:36:46,519 --> 00:36:51,949
is thought to extend a few feet around

818
00:36:48,559 --> 00:36:54,289
us it has also been found this cloud is

819
00:36:51,949 --> 00:36:56,299
as unique as a fingerprint people can

820
00:36:54,289 --> 00:37:01,130
actually be identified using the

821
00:36:56,300 --> 00:37:03,950
bacterial composition that's our weird 5

822
00:37:01,130 --> 00:37:07,640
science stories from 2015 there's more

823
00:37:03,949 --> 00:37:11,149
information on the Arias website RI aus

824
00:37:07,639 --> 00:37:13,609
org a you follow us on twitter at r oz

825
00:37:11,150 --> 00:37:16,960
and like us on facebook i'm ben lewis

826
00:37:13,610 --> 00:37:16,960
and we'll catch you next week

827

00:37:41,880 --> 00:37:48,970
hi are you a skeptic living somewhere in

828
00:37:46,210 --> 00:37:51,070
Europe or simply interested in what like

829
00:37:48,969 --> 00:37:53,669
minded people are up to in countries

830
00:37:51,070 --> 00:37:56,650
around here I have good news for you

831
00:37:53,670 --> 00:37:58,930
there is a new podcast out there with

832
00:37:56,650 --> 00:38:04,090
the aim of helping you connect with all

833
00:37:58,929 --> 00:38:07,750
those European skeptics the ESP European

834
00:38:04,090 --> 00:38:09,700
skeptics podcast a biweekly show coming

835
00:38:07,750 --> 00:38:13,869
out on the 18th of November on

836
00:38:09,699 --> 00:38:17,409
soundcloud iTunes and stitcher come and

837
00:38:13,869 --> 00:38:20,289
visit our website the ESP you follow us

838
00:38:17,409 --> 00:38:23,099
on Facebook and Twitter and help us keep

839
00:38:20,289 --> 00:38:27,219
the project genuinely international and

840
00:38:23,099 --> 00:38:31,259
interactive let us provide you with a

841
00:38:27,219 --> 00:38:31,259

real ESP experience

842

00:38:36,760 --> 00:38:58,420

I don't know I you can't believe here's

843

00:38:51,469 --> 00:38:58,419

may not spooky action at the distance of

844

00:38:59,019 --> 00:39:02,599

course here at skeptics the pub we

845

00:39:00,980 --> 00:39:03,980

always throw questions after people that

846

00:39:02,599 --> 00:39:04,730

make them each and make them scratch and

847

00:39:03,980 --> 00:39:06,889

make them look like they've been

848

00:39:04,730 --> 00:39:10,550

affected with the question virus and

849

00:39:06,889 --> 00:39:12,259

tonight's question will be ripped what

850

00:39:10,550 --> 00:39:15,410

should you get a skeptic for Christmas

851

00:39:12,260 --> 00:39:16,910

what is a ideal Christmas gift for a

852

00:39:15,409 --> 00:39:18,829

skeptic now we're going to try and avoid

853

00:39:16,909 --> 00:39:19,969

any buzz marketing here or anything like

854

00:39:18,829 --> 00:39:21,500

that I mentioned some people probably

855

00:39:19,969 --> 00:39:23,000

promote dick smith who won't have that

856
00:39:21,500 --> 00:39:25,460
he doesn't own the shop anymore anyway

857
00:39:23,000 --> 00:39:27,530
so what should you get a skeptic for

858
00:39:25,460 --> 00:39:30,920
Christmas which was I think a song from

859
00:39:27,530 --> 00:39:34,420
my fair lady what would I give to a

860
00:39:30,920 --> 00:39:36,710
skeptic probably a box of handkerchiefs

861
00:39:34,420 --> 00:39:40,550
that's a good that's always a good gift

862
00:39:36,710 --> 00:39:42,500
isn't it yeah and maybe some undies yes

863
00:39:40,550 --> 00:39:45,470
what days of the week written on them

864
00:39:42,500 --> 00:39:46,940
yeah yes well I'm Alex I've been

865
00:39:45,469 --> 00:39:51,500
listening to the skipping zone for

866
00:39:46,940 --> 00:39:52,970
several months and I like it a lot and I

867
00:39:51,500 --> 00:39:56,780
think the idea was present present for a

868
00:39:52,969 --> 00:39:59,779
psychic would be for a skeptic it would

869
00:39:56,780 --> 00:40:02,480
be a psychic in a cage say sally morgan

870
00:39:59,780 --> 00:40:04,720
in a cage oh that certainly make the the

871
00:40:02,480 --> 00:40:07,429
northern skeptics pretty happy in the UK

872
00:40:04,719 --> 00:40:08,750
no I were imagined they would they

873
00:40:07,429 --> 00:40:10,309
wouldn't I would have you know they

874
00:40:08,750 --> 00:40:12,000
could make money selling tickets to go

875
00:40:10,309 --> 00:40:14,429
and see it

876
00:40:12,000 --> 00:40:16,139
and look I asked everybody this I'll

877
00:40:14,429 --> 00:40:17,669
just asking quickly what is is that the

878
00:40:16,139 --> 00:40:23,099
faith is that the favorite sort of woo

879
00:40:17,670 --> 00:40:24,360
you like to hate net psychics well I'm

880
00:40:23,099 --> 00:40:26,369
not sure about haven't got a favorite

881
00:40:24,360 --> 00:40:29,280
whew that I hate homeopathy comes pretty

882
00:40:26,369 --> 00:40:32,489
close to a second awesome maybe even top

883
00:40:29,280 --> 00:40:34,950
you know chiropractic is another one all

884

00:40:32,489 --> 00:40:36,449
those ones that beat people up and as a

885
00:40:34,949 --> 00:40:38,250
pretense of actually helping them get

886
00:40:36,449 --> 00:40:41,009
better I think they're there they're

887
00:40:38,250 --> 00:40:43,050
just read full they should be eradicated

888
00:40:41,010 --> 00:40:45,240
somehow somehow is it be stomped stand

889
00:40:43,050 --> 00:40:46,620
down yeah and actually this is their

890
00:40:45,239 --> 00:40:48,239
first time person who along are the

891
00:40:46,619 --> 00:40:49,949
skeptics in the pub what sure what's the

892
00:40:48,239 --> 00:40:52,559
wu you like to write what's the one that

893
00:40:49,949 --> 00:40:56,699
really get your goat chiropractic and

894
00:40:52,559 --> 00:40:58,759
why is that yeah i studied it quite in

895
00:40:56,699 --> 00:41:03,089
depth during my undergraduate degree and

896
00:40:58,760 --> 00:41:05,220
made a lot of enemies is there any there

897
00:41:03,090 --> 00:41:07,170
is a genuine chiropractic that is

898
00:41:05,219 --> 00:41:08,519

actually science-based is there a side

899

00:41:07,170 --> 00:41:10,289
of it that is science based or way

900

00:41:08,519 --> 00:41:13,170
incorrect I wouldn't say science-based

901

00:41:10,289 --> 00:41:20,099
more that they've drifted away from the

902

00:41:13,170 --> 00:41:22,230
real crazy in there in that they don't

903

00:41:20,099 --> 00:41:24,119
quite go in for the whole everything is

904

00:41:22,230 --> 00:41:28,260
caused by imbalance and was fine but

905

00:41:24,119 --> 00:41:30,690
they're basically glorified physios and

906

00:41:28,260 --> 00:41:32,190
how did you find yourself at skeptics in

907

00:41:30,690 --> 00:41:34,440
the pub and listen to the skeptic zone

908

00:41:32,190 --> 00:41:36,269
well I listened to skeptics own back

909

00:41:34,440 --> 00:41:38,409
home after being recommended it at QED

910

00:41:36,269 --> 00:41:40,809
con a couple of years ago

911

00:41:38,409 --> 00:41:44,409
and they've had that was recommended by

912

00:41:40,809 --> 00:41:45,910
dr. Bradford okay cool um yeah he's

913
00:41:44,409 --> 00:41:51,848
quite a dreamy looking doctor isn't it

914
00:41:45,909 --> 00:41:54,909
he's a good luck and then yeah so now

915
00:41:51,849 --> 00:41:56,829
I've relocated to Sydney and skeptics in

916
00:41:54,909 --> 00:41:59,078
the pub was my thing back home so how

917
00:41:56,829 --> 00:42:00,339
did you work in the science field I'm a

918
00:41:59,079 --> 00:42:03,280
radiographer so I work in the medical

919
00:42:00,338 --> 00:42:04,690
field so okay i'm a nerd say that you

920
00:42:03,280 --> 00:42:06,839
spent a lot of time running behind that

921
00:42:04,690 --> 00:42:09,099
screen don't you yeah yeah it's my

922
00:42:06,838 --> 00:42:10,509
spiritual home is behind the ledge know

923
00:42:09,099 --> 00:42:12,039
is that the first thing you're taught as

924
00:42:10,510 --> 00:42:13,599
a rare up where elders just before you

925
00:42:12,039 --> 00:42:15,400
push the button go behind the screen

926
00:42:13,599 --> 00:42:18,430
it's how not to trip over your own feet

927
00:42:15,400 --> 00:42:20,230
while you're doing it yeah and you wear

928
00:42:18,429 --> 00:42:23,230
a little guy good thing on you yes a

929
00:42:20,230 --> 00:42:25,088
little dazed cancer yet okay that's cool

930
00:42:23,230 --> 00:42:26,170
and and you get really incensed when

931
00:42:25,088 --> 00:42:27,969
people think that there's actually

932
00:42:26,170 --> 00:42:29,740
radiation coming from the microwave oven

933
00:42:27,969 --> 00:42:33,038
and they go the microwave oven will kill

934
00:42:29,739 --> 00:42:35,439
me no it's not the same it's not iron

935
00:42:33,039 --> 00:42:36,700
izing it's it's to illness it's more the

936
00:42:35,440 --> 00:42:38,289
ones that come in worrying about the

937
00:42:36,699 --> 00:42:39,608
radiation from the x-ray smelling a

938
00:42:38,289 --> 00:42:41,589
cigarette smoke those are the ones that

939
00:42:39,608 --> 00:42:42,880
really bugged me the most yeah you have

940
00:42:41,588 --> 00:42:45,849
to have to hold back on giving the

941

00:42:42,880 --> 00:42:47,349
lecture yeah thank you you're at puffing

942
00:42:45,849 --> 00:42:48,579
out there and you're coming in here and

943
00:42:47,349 --> 00:42:52,359
you're worried about you know yeah

944
00:42:48,579 --> 00:42:54,190
exactly exactly I end up so what are you

945
00:42:52,358 --> 00:42:55,000
hoping to see tonight here well what do

946
00:42:54,190 --> 00:42:56,289
you think you're gonna find in as

947
00:42:55,000 --> 00:42:57,639
skeptics in the pub you been to a few

948
00:42:56,289 --> 00:42:59,920
other ones around the place okay well

949
00:42:57,639 --> 00:43:01,058
I've just literally just been told what

950
00:42:59,920 --> 00:43:02,289
subject is and I'm really really

951
00:43:01,059 --> 00:43:03,730
interested because neurology or

952
00:43:02,289 --> 00:43:05,528
something I'm quite interested in it

953
00:43:03,730 --> 00:43:07,329
something I find quite intriguing and

954
00:43:05,528 --> 00:43:08,650
incredibly complex why is that because

955
00:43:07,329 --> 00:43:10,000

it's very hard to defeat them all

956

00:43:08,650 --> 00:43:11,920

they're very interesting organism what

957

00:43:10,000 --> 00:43:14,108

is it about them if you can remove

958

00:43:11,920 --> 00:43:15,670

yourself from the humanism aspect of

959

00:43:14,108 --> 00:43:18,880

people die from them I find them very

960

00:43:15,670 --> 00:43:20,349

very interesting organisms but then

961

00:43:18,880 --> 00:43:22,990

there's also the aspect of what can we

962

00:43:20,349 --> 00:43:24,849

do to defeat these little busters that's

963

00:43:22,989 --> 00:43:26,469

pretty cool question we are asking

964

00:43:24,849 --> 00:43:28,028

everybody this is just our magnets

965

00:43:26,469 --> 00:43:29,500

Christmas is what would be a great

966

00:43:28,028 --> 00:43:33,309

Christmas present for a skeptic you

967

00:43:29,500 --> 00:43:35,108

reckon well peace oh that's good that's

968

00:43:33,309 --> 00:43:37,670

good and the sir Count anything funny

969

00:43:35,108 --> 00:43:40,429

about that can make jokers in you

970
00:43:37,670 --> 00:43:43,010
well I hope you get what you want thank

971
00:43:40,429 --> 00:43:45,048
you very much enjoy the whole time okay

972
00:43:43,010 --> 00:43:46,280
Ross you've just heard that she says you

973
00:43:45,048 --> 00:43:47,780
want to world peace for Christmas so

974
00:43:46,280 --> 00:43:48,829
your stuff now whatever answer you give

975
00:43:47,780 --> 00:43:51,380
really what do you think would be a

976
00:43:48,829 --> 00:43:52,789
perfect gift for a skeptic at Christmas

977
00:43:51,380 --> 00:43:54,829
yeah you know I've given it some thought

978
00:43:52,789 --> 00:43:56,509
and I reckon if Sully Morgan

979
00:43:54,829 --> 00:43:58,700
accidentally left her microphone on

980
00:43:56,510 --> 00:44:01,220
backstage that would be absolutely gold

981
00:43:58,699 --> 00:44:02,659
in my opinion so what do you reckon we'd

982
00:44:01,219 --> 00:44:04,578
hear her talking to the people that her

983
00:44:02,659 --> 00:44:06,710
handlers and might be doing that all the

984
00:44:04,579 --> 00:44:08,420
stuff behind it's possible she might

985
00:44:06,710 --> 00:44:10,280
give away some interesting facts about

986
00:44:08,420 --> 00:44:11,530
her performances I think for legal

987
00:44:10,280 --> 00:44:13,790
reasons we'll have to leave it at that

988
00:44:11,530 --> 00:44:16,099
we might hear something as interesting

989
00:44:13,789 --> 00:44:19,599
as can you hear me Petey that one well

990
00:44:16,099 --> 00:44:19,599
that would obviously be the dream

991
00:44:19,659 --> 00:44:22,848
Richard Saunders who you heard at the

992
00:44:21,500 --> 00:44:24,588
beginning to show the guys running this

993
00:44:22,849 --> 00:44:27,710
whole operation here this this whole

994
00:44:24,588 --> 00:44:30,980
this whole chicken outfit to tell me

995
00:44:27,710 --> 00:44:32,809
captain soap what would you like for

996
00:44:30,980 --> 00:44:34,490
Christmas for the skeptics what is it

997
00:44:32,809 --> 00:44:37,730
what's a good Christmas gift for a

998

00:44:34,489 --> 00:44:39,618
skeptic I think every year that I get my

999
00:44:37,730 --> 00:44:41,809
Christmas gift when I think that each

1000
00:44:39,619 --> 00:44:45,410
year that we are around medical science

1001
00:44:41,809 --> 00:44:47,180
progresses more and more and it helps

1002
00:44:45,409 --> 00:44:50,058
people like my mother and my sisters

1003
00:44:47,179 --> 00:44:51,440
that's pretty damn good and what area

1004
00:44:50,059 --> 00:44:52,940
would you like to see progress a bit

1005
00:44:51,440 --> 00:44:54,318
more I mean obviously you've been

1006
00:44:52,940 --> 00:44:56,210
involved seeing a bit of palliative

1007
00:44:54,318 --> 00:44:57,558
beeps a bit of palliative care lately

1008
00:44:56,210 --> 00:44:59,119
and of course there's laws that are

1009
00:44:57,559 --> 00:45:01,339
around that in Australia and they would

1010
00:44:59,119 --> 00:45:03,530
you like to see any legal things change

1011
00:45:01,338 --> 00:45:05,269
in palliative care I mean I know it's

1012
00:45:03,530 --> 00:45:06,920

really tough question I have to think

1013

00:45:05,269 --> 00:45:10,670

about that for a lot longer but I'm

1014

00:45:06,920 --> 00:45:13,220

pleased that and this is public

1015

00:45:10,670 --> 00:45:16,940

knowledge now so my sister is is having

1016

00:45:13,219 --> 00:45:18,339

a cancer issue at the moment but if this

1017

00:45:16,940 --> 00:45:22,159

happened to a

1018

00:45:18,340 --> 00:45:25,510

30 20 30 years ago her her outlook would

1019

00:45:22,159 --> 00:45:28,819

be grim now it's the outlook is good so

1020

00:45:25,510 --> 00:45:30,650

you know what on wood science and

1021

00:45:28,820 --> 00:45:33,320

medicine because you had a scare during

1022

00:45:30,650 --> 00:45:35,630

the year but you got through I did I had

1023

00:45:33,320 --> 00:45:38,059

a cancer scare of myself but again

1024

00:45:35,630 --> 00:45:41,059

medical science to the rescue and the

1025

00:45:38,059 --> 00:45:42,710

latest had me I drove you home and and

1026

00:45:41,059 --> 00:45:44,690

the thing is the most dangerous thing

1027
00:45:42,710 --> 00:45:47,030
about the operation is getting to and

1028
00:45:44,690 --> 00:45:49,820
from the hospital and you let me drive

1029
00:45:47,030 --> 00:45:54,140
you you idiot I thank you for driving me

1030
00:45:49,820 --> 00:45:55,760
home a not yet but you know look I was

1031
00:45:54,139 --> 00:45:57,650
drunk the whole time frankly I don't

1032
00:45:55,760 --> 00:45:59,420
remember it so I think if I don't

1033
00:45:57,650 --> 00:46:01,430
remember it never happened good next

1034
00:45:59,420 --> 00:46:02,809
time I need help me out I'll be sure to

1035
00:46:01,429 --> 00:46:04,460
give you a call you should have been

1036
00:46:02,809 --> 00:46:07,849
married when I had the martini glass in

1037
00:46:04,460 --> 00:46:09,230
the waiting room look as I said we're it

1038
00:46:07,849 --> 00:46:10,819
skeptics at the pub but it's not very

1039
00:46:09,230 --> 00:46:12,139
often we get someone coming along and

1040
00:46:10,820 --> 00:46:13,670
not only is perhaps the first time

1041
00:46:12,139 --> 00:46:15,440
skeptical in the pub girl but someone

1042
00:46:13,670 --> 00:46:17,389
who's only been listening to the skeptic

1043
00:46:15,440 --> 00:46:19,130
zone for a few episodes just a couple

1044
00:46:17,389 --> 00:46:20,750
episodes what's your name sir hey Jamie

1045
00:46:19,130 --> 00:46:22,010
hey good to have you here Jamie and what

1046
00:46:20,750 --> 00:46:24,409
made you decide to come along to

1047
00:46:22,010 --> 00:46:25,790
skeptics in the pub tonight I'm really I

1048
00:46:24,409 --> 00:46:27,199
want to get more involved with this

1049
00:46:25,789 --> 00:46:29,599
kept a community here in Sydney I

1050
00:46:27,199 --> 00:46:30,889
recently moved to Sydney I've been

1051
00:46:29,599 --> 00:46:34,130
listening to the skippy scarred the

1052
00:46:30,889 --> 00:46:36,019
universe for quite a while now and then

1053
00:46:34,130 --> 00:46:37,269
I recently started pushing through to

1054
00:46:36,019 --> 00:46:40,070
other things are getting more involved

1055

00:46:37,269 --> 00:46:42,320
online and that kind of thing next year

1056
00:46:40,070 --> 00:46:45,710
I want to get more involved because I'm

1057
00:46:42,320 --> 00:46:47,059
a design student ok and next year i'm

1058
00:46:45,710 --> 00:46:49,099
doing my honours year i want to get more

1059
00:46:47,059 --> 00:46:52,340
involved with science education in the

1060
00:46:49,099 --> 00:46:54,980
public and we have to do quite a major

1061
00:46:52,340 --> 00:46:57,470
project for that yeah and what about the

1062
00:46:54,980 --> 00:46:59,360
you are a skipping stone listener after

1063
00:46:57,469 --> 00:47:00,859
the skipper's guard the universe so I

1064
00:46:59,360 --> 00:47:02,510
mean obviously we don't have the budget

1065
00:47:00,860 --> 00:47:04,039
those guys heaven then and they've

1066
00:47:02,510 --> 00:47:05,750
worked together a lot longer what do you

1067
00:47:04,039 --> 00:47:07,519
make of the show so far and you can be

1068
00:47:05,750 --> 00:47:09,110
honest here I really liked the format

1069
00:47:07,519 --> 00:47:11,090

actually it took me one of the episodes

1070

00:47:09,110 --> 00:47:13,849

to kind of get used to it I was used to

1071

00:47:11,090 --> 00:47:15,500

little more very kind of um very

1072

00:47:13,849 --> 00:47:17,630

formatted kind of show but I really like

1073

00:47:15,500 --> 00:47:19,940

the way how

1074

00:47:17,630 --> 00:47:22,009

Richard brings all the different kind of

1075

00:47:19,940 --> 00:47:23,599

people into the show we're from

1076

00:47:22,009 --> 00:47:26,990

different kind of including myself from

1077

00:47:23,599 --> 00:47:28,250

time to time from time to time yes yes I

1078

00:47:26,989 --> 00:47:30,858

walked in here today and the first verse

1079

00:47:28,250 --> 00:47:32,088

that recognizes Richards oh yeah he's

1080

00:47:30,858 --> 00:47:35,150

out the front with the head out in the

1081

00:47:32,088 --> 00:47:37,159

guitar yeah these Frank Sinatra ballads

1082

00:47:35,150 --> 00:47:39,950

well done there a good time and I hope

1083

00:47:37,159 --> 00:47:41,629

you enjoy yourself thanks man oh ok hang

1084
00:47:39,949 --> 00:47:42,980
on hang on the doctor alert I can sense

1085
00:47:41,630 --> 00:47:45,170
with my psychic powers that there's

1086
00:47:42,980 --> 00:47:46,789
someone here who spent a lot of time at

1087
00:47:45,170 --> 00:47:50,048
a tertiary institution to get a degree

1088
00:47:46,789 --> 00:47:53,630
who've we got at dr. Brad Makai here

1089
00:47:50,048 --> 00:47:55,309
yeah because he's from Australia's most

1090
00:47:53,630 --> 00:47:56,329
embarrassing medical practices or

1091
00:47:55,309 --> 00:47:58,970
something I that wasn't something like

1092
00:47:56,329 --> 00:48:00,920
that yeah great show i love the hidden

1093
00:47:58,969 --> 00:48:02,538
camera work um tell me what do you think

1094
00:48:00,920 --> 00:48:04,278
would be a great present to get a

1095
00:48:02,539 --> 00:48:05,869
skeptic for Christmas I think the

1096
00:48:04,278 --> 00:48:07,730
perfect gift would be something that you

1097
00:48:05,869 --> 00:48:12,619
can see into the future something like a

1098
00:48:07,730 --> 00:48:15,409
crystal ball television that's an oddly

1099
00:48:12,619 --> 00:48:17,349
shaped crystal balls those plasma sets

1100
00:48:15,409 --> 00:48:19,250
are a little bit more like paper yeah

1101
00:48:17,349 --> 00:48:20,568
actually personally what are you hinting

1102
00:48:19,250 --> 00:48:22,068
for this Christmas what are you been

1103
00:48:20,568 --> 00:48:24,969
hinting for people to get you have you

1104
00:48:22,068 --> 00:48:28,068
been putting in San I've wanted a

1105
00:48:24,969 --> 00:48:29,389
three-legged rabbit yeah so yeah so

1106
00:48:28,068 --> 00:48:30,768
somebody else can have the lucky

1107
00:48:29,389 --> 00:48:33,170
rabbit's foot and I'll just take the

1108
00:48:30,768 --> 00:48:36,048
rest of it don't even I can't even get a

1109
00:48:33,170 --> 00:48:38,929
rabbit in Queensland we're not allowed

1110
00:48:36,048 --> 00:48:40,670
yeah you got the skeptic proof fence up

1111
00:48:38,929 --> 00:48:42,559
there haven't you apparently yeah it's

1112

00:48:40,670 --> 00:48:44,630
so depressing because Bonnie's are the

1113
00:48:42,559 --> 00:48:48,499
cutest right I mean that's that's a

1114
00:48:44,630 --> 00:48:50,660
genuinely known fact peer reviewed yeah

1115
00:48:48,498 --> 00:48:52,248
and also you cause a bit of a bit of a

1116
00:48:50,659 --> 00:48:54,288
few earlier in the week when you were on

1117
00:48:52,248 --> 00:48:56,208
ABC radio and Australia you you're

1118
00:48:54,289 --> 00:48:59,089
bad-mouthing the fact that memory has

1119
00:48:56,208 --> 00:49:01,489
got water award has got memory I was

1120
00:48:59,088 --> 00:49:04,578
just explaining the ludicrousness of it

1121
00:49:01,489 --> 00:49:06,708
so there was a fun time talking about

1122
00:49:04,579 --> 00:49:10,219
alternative medicine especially talking

1123
00:49:06,708 --> 00:49:13,098
about wet cupping versus dry coming um

1124
00:49:10,219 --> 00:49:15,739
and so did what I was like it when a

1125
00:49:13,099 --> 00:49:17,329
skeptic comes up against a normal a

1126
00:49:15,739 --> 00:49:18,978

regular crowd that has an encounter the

1127

00:49:17,329 --> 00:49:20,869

sceptical thought before and they bring

1128

00:49:18,978 --> 00:49:22,428

in they go oh I'm Tom taking some

1129

00:49:20,869 --> 00:49:23,989

homeopathy what do you think that will

1130

00:49:22,429 --> 00:49:25,910

do how do you go when you have someone

1131

00:49:23,989 --> 00:49:27,199

who hasn't been exposed to any of the

1132

00:49:25,909 --> 00:49:28,879

critical thinking about that how do you

1133

00:49:27,199 --> 00:49:30,769

approach it I found it quite interesting

1134

00:49:28,880 --> 00:49:31,670

on the radio we're having people calling

1135

00:49:30,768 --> 00:49:33,768

in about all sorts of different

1136

00:49:31,670 --> 00:49:35,749

alternative therapies and yeah like I

1137

00:49:33,768 --> 00:49:37,428

think my resounding thought at the end

1138

00:49:35,748 --> 00:49:40,248

of it was oh my god people actually

1139

00:49:37,429 --> 00:49:41,778

believe this and they're often people

1140

00:49:40,248 --> 00:49:43,068

are just very inquisitive like

1141
00:49:41,778 --> 00:49:45,579
especially they'll ring up about ear

1142
00:49:43,068 --> 00:49:48,139
candling to ask if that really worked

1143
00:49:45,579 --> 00:49:50,630
and when I described as a magic trick

1144
00:49:48,139 --> 00:49:52,458
they everybody was sort of impressed

1145
00:49:50,630 --> 00:49:54,499
with that so yeah I think there's a lot

1146
00:49:52,458 --> 00:49:56,239
of inquisitiveness I think a lot of

1147
00:49:54,498 --> 00:49:58,428
people who do believe in homeopathy

1148
00:49:56,239 --> 00:49:59,869
don't really know what it's about they

1149
00:49:58,429 --> 00:50:01,189
think that there's an active ingredient

1150
00:49:59,869 --> 00:50:03,499
there they think that there's something

1151
00:50:01,188 --> 00:50:05,178
that it's doing for them and when you

1152
00:50:03,498 --> 00:50:07,338
actually explained about water having

1153
00:50:05,179 --> 00:50:09,318
memory and how its diluted and how

1154
00:50:07,338 --> 00:50:11,900
that's apparently meant to make it have

1155
00:50:09,318 --> 00:50:13,278
more power yeah people often scratch

1156
00:50:11,900 --> 00:50:15,410
their heads and go I didn't really know

1157
00:50:13,278 --> 00:50:17,389
what that was about at all yeah and it's

1158
00:50:15,409 --> 00:50:19,159
good to just take it easy with them

1159
00:50:17,389 --> 00:50:20,659
because if you take to a confrontational

1160
00:50:19,159 --> 00:50:22,129
approach or you may be insult their

1161
00:50:20,659 --> 00:50:24,259
intelligence that's not the way to go is

1162
00:50:22,130 --> 00:50:26,509
it I certainly explained it in the most

1163
00:50:24,259 --> 00:50:30,739
confusing way possible I'll good to make

1164
00:50:26,509 --> 00:50:33,179
them realize how bizarre it was

1165
00:50:30,739 --> 00:50:35,009
yeah we got Jessica singing hi Jessica

1166
00:50:33,179 --> 00:50:36,959
how are you I'm extremely well but I'm

1167
00:50:35,009 --> 00:50:39,838
very hungry she's one of these shadowy

1168
00:50:36,958 --> 00:50:44,518
puppet master elite of the skeptics

1169

00:50:39,838 --> 00:50:47,068
aren't you oh yeah yeah I I'm happy to

1170
00:50:44,518 --> 00:50:49,258
claim that claim that particular honor

1171
00:50:47,068 --> 00:50:50,969
yes absolutely okay as one of these

1172
00:50:49,259 --> 00:50:52,349
skeptical Illuminati then what do you

1173
00:50:50,969 --> 00:50:54,958
think would make a great Christmas

1174
00:50:52,349 --> 00:50:57,449
present for skeptic oh well a three-year

1175
00:50:54,958 --> 00:50:59,818
gift subscription to our fabulous

1176
00:50:57,449 --> 00:51:04,679
magazine the skeptic which can be got in

1177
00:50:59,818 --> 00:51:07,558
hard copy and digital version and or

1178
00:51:04,679 --> 00:51:09,059
both no and thinking of skeptics what if

1179
00:51:07,559 --> 00:51:10,709
you did have a Christmas tree won't be a

1180
00:51:09,059 --> 00:51:12,539
skeptical decoration for the Christmas

1181
00:51:10,708 --> 00:51:15,118
tree I always go for the Shatner's

1182
00:51:12,539 --> 00:51:17,369
something to do with shatner picture

1183
00:51:15,119 --> 00:51:18,959

William Shatner with a Santa's hat on

1184

00:51:17,369 --> 00:51:21,749

something but what do you reckon Star

1185

00:51:18,958 --> 00:51:23,778

Wars doctor doctor who surely they've

1186

00:51:21,748 --> 00:51:26,909

got doctor who christmas ornaments

1187

00:51:23,778 --> 00:51:29,130

guitar dispute really yeah totally

1188

00:51:26,909 --> 00:51:30,688

totally yeah good that okay how do you

1189

00:51:29,130 --> 00:51:33,329

normally spend Christmas Day juice but

1190

00:51:30,688 --> 00:51:34,828

do you spend it having a lot of skeptics

1191

00:51:33,329 --> 00:51:36,420

have a lot of arguments some of the

1192

00:51:34,829 --> 00:51:38,699

family on the skit on Christmas Day

1193

00:51:36,420 --> 00:51:41,009

don't they oh no we just drink heavily

1194

00:51:38,699 --> 00:51:43,650

oh okay we get together with the family

1195

00:51:41,009 --> 00:51:47,759

and drink heavily and on that note I

1196

00:51:43,650 --> 00:51:50,068

think every skeptic you know it Tim

1197

00:51:47,759 --> 00:51:54,509

mentions drinking white wine in the Sun

1198
00:51:50,068 --> 00:51:57,389
is reduces the most hardened skeptic and

1199
00:51:54,509 --> 00:51:59,728
or atheist to bull a blubbering mess and

1200
00:51:57,389 --> 00:52:01,078
if you can't I just love that song if

1201
00:51:59,728 --> 00:52:03,118
you can't find that my Christmas

1202
00:52:01,079 --> 00:52:06,630
favorite is Clarence Carter back door

1203
00:52:03,119 --> 00:52:09,959
Santa Tom Jones also did a version of it

1204
00:52:06,630 --> 00:52:12,358
back door Santa it's a great track it's

1205
00:52:09,958 --> 00:52:15,948
true oh look she's gonna be laughing til

1206
00:52:12,358 --> 00:52:15,949
January I'll talk to you later bye

1207
00:52:25,318 --> 00:52:36,298
I want to help support the skeptic zone

1208
00:52:33,869 --> 00:52:39,180
and look pretty damn stylish while

1209
00:52:36,298 --> 00:52:43,318
you're about it visit mr. Katz origami

1210
00:52:39,179 --> 00:52:46,139
jewelry WWE pegs on TV and click the

1211
00:52:43,318 --> 00:52:49,739
link or simply Google mr. Katz origami

1212
00:52:46,139 --> 00:52:53,449
jewelry also on Facebook pendants

1213
00:52:49,739 --> 00:52:57,559
earrings and cufflinks support mr. cat

1214
00:52:53,449 --> 00:52:57,559
support the skeptic zone

1215
00:53:10,739 --> 00:53:15,219
thank you for listening to the skeptic

1216
00:53:13,059 --> 00:53:18,699
zone and I must say a big thank you to

1217
00:53:15,219 --> 00:53:20,338
the skeptic zones voiceover man Jim

1218
00:53:18,699 --> 00:53:23,500
wilshire he's the man who says this

1219
00:53:20,338 --> 00:53:26,078
welcome to the skeptic zone the podcast

1220
00:53:23,500 --> 00:53:29,170
from Australia for science and reason

1221
00:53:26,079 --> 00:53:32,019
Jim came up from Aubrey he lives down

1222
00:53:29,170 --> 00:53:33,760
there Aubrey he drove up to visit me for

1223
00:53:32,019 --> 00:53:36,150
my birthday which was so nice of him

1224
00:53:33,760 --> 00:53:39,099
really great to see him and he gave me

1225
00:53:36,150 --> 00:53:43,358
he he gave me an interesting present

1226

00:53:39,099 --> 00:53:56,289
folks he gave me ah well i'll let you

1227
00:53:43,358 --> 00:53:57,909
listen a sonic screwdriver oh yes not

1228
00:53:56,289 --> 00:54:01,239
just a sonic screwdriver this is

1229
00:53:57,909 --> 00:54:03,699
beautifully made it's a weighty it's

1230
00:54:01,239 --> 00:54:08,318
made out of real metal and it's also a

1231
00:54:03,699 --> 00:54:11,348
TV remote control so I can't wait to

1232
00:54:08,318 --> 00:54:13,150
visit my uh my nephews and nieces I

1233
00:54:11,349 --> 00:54:15,160
won't tell them anything I'll just sort

1234
00:54:13,150 --> 00:54:18,900
of be sitting there and I'll whip out my

1235
00:54:15,159 --> 00:54:18,899
sonic screwdriver and turn off the TV

1236
00:54:22,019 --> 00:54:30,039
thank you Jim all right you can turn off

1237
00:54:24,849 --> 00:54:31,630
now God there we are powdered down thank

1238
00:54:30,039 --> 00:54:33,369
you Jim will sure what a wonderful

1239
00:54:31,630 --> 00:54:35,710
present what a fun present for my

1240
00:54:33,369 --> 00:54:37,690

birthday thank you so much coming up on

1241

00:54:35,710 --> 00:54:39,068

next week's show is mentioned before an

1242

00:54:37,690 --> 00:54:40,568

interview with Ross pouch from the

1243

00:54:39,068 --> 00:54:42,818

Brisbane skeptics society and what a

1244

00:54:40,568 --> 00:54:45,068

great job they do relatively new group

1245

00:54:42,818 --> 00:54:48,429

they hosted the Australian skeptics

1246

00:54:45,068 --> 00:54:50,980

convention or a month or two back and

1247

00:54:48,429 --> 00:54:52,539

there are more interviews still coming

1248

00:54:50,980 --> 00:54:54,880

from that convention because may not

1249

00:54:52,539 --> 00:54:57,099

being Maynard running around with this

1250

00:54:54,880 --> 00:55:00,789

microphone got lots of great interviews

1251

00:54:57,099 --> 00:55:03,250

and also next week I hope to have on the

1252

00:55:00,789 --> 00:55:05,920

show representatives of the new podcast

1253

00:55:03,250 --> 00:55:09,519

you heard about in the skeptic zone the

1254

00:55:05,920 --> 00:55:12,280

the new European skeptics podcast so

1255
00:55:09,519 --> 00:55:14,318
that might be very interesting what for

1256
00:55:12,280 --> 00:55:15,940
this week this is Richard soon as I

1257
00:55:14,318 --> 00:55:20,619
wonder if I can do this I want if I get

1258
00:55:15,940 --> 00:55:22,900
a TARDIS cool no TARDIS oh well better

1259
00:55:20,619 --> 00:55:24,930
luck next time signing off from Sydney

1260
00:55:22,900 --> 00:55:24,930
Australia

1261
00:55:29,400 --> 00:55:35,588
you've been listening to the skeptics

1262
00:55:31,838 --> 00:55:38,529
own podcast visit our website at wwc a

1263
00:55:35,588 --> 00:55:41,949
petting zoo TV for contacts and archive

1264
00:55:38,530 --> 00:55:44,650
of all episodes since 2008 and our

1265
00:55:41,949 --> 00:55:46,559
online store please support the skeptic

1266
00:55:44,650 --> 00:55:49,750
zone by following us on twitter at

1267
00:55:46,559 --> 00:55:53,380
skeptic zone liking us on facebook and

1268
00:55:49,750 --> 00:55:55,539
leaving a review on iTunes you can also

1269
00:55:53,380 --> 00:55:58,710
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1270
00:55:55,539 --> 00:56:01,509
paypal for as little as 99 cents a week

1271
00:55:58,710 --> 00:56:03,099
the skeptic zone is an independent

1272
00:56:01,510 --> 00:56:05,560
production the views and opinions

1273
00:56:03,099 --> 00:56:07,630
expressed on the skeptic zone and not

1274
00:56:05,559 --> 00:56:12,869
necessarily those of Australian skeptic

1275
00:56:07,630 --> 00:56:12,869
tea or any other skeptical organization