

**The Skeptic Zone**  
**Show 372 - 6 Dec 2015**



**Richard Saunders**  
**and Harriet Hall**

1  
00:00:22,150 --> 00:00:09,089  
welcome to the skeptic zone the podcast

2  
00:00:28,850 --> 00:00:24,830  
hello and welcome to the skeptic zone

3  
00:00:31,790 --> 00:00:28,860  
episode number 372 for the sixth of

4  
00:00:35,120 --> 00:00:31,800  
December 2015 Richard Saunders here with

5  
00:00:37,549 --> 00:00:35,130  
you from Sydney Australia just back from

6  
00:00:39,770 --> 00:00:37,559  
Newcastle just up the coast north of

7  
00:00:42,890 --> 00:00:39,780  
Sydney where last night I went to a

8  
00:00:45,650 --> 00:00:42,900  
Maynard special night may not the farce

9  
00:00:47,240 --> 00:00:45,660  
awakens thank you to all the skeptics on

10  
00:00:49,610 --> 00:00:47,250  
fans who turned up we had a really great

11  
00:00:52,130 --> 00:00:49,620  
time Maynard showed some weed and

12  
00:00:53,920 --> 00:00:52,140  
bizarre clips including some snippets

13  
00:00:57,170 --> 00:00:53,930

from the star wars holiday special

14  
00:00:59,660 --> 00:00:57,180  
mm-hmm what am excellent production that

15  
00:01:01,940 --> 00:00:59,670  
is and then we all enjoyed a special

16  
00:01:04,130 --> 00:01:01,950  
screening of the movie Spaceballs thanks

17  
00:01:06,920 --> 00:01:04,140  
many nod that was a great night and keep

18  
00:01:09,680 --> 00:01:06,930  
an eye out folks we'll see if we can get

19  
00:01:12,200 --> 00:01:09,690  
main out to do some more special events

20  
00:01:15,080 --> 00:01:12,210  
coming up but what's coming up on this

21  
00:01:16,969 --> 00:01:15,090  
week's episode of the skeptic zone we're

22  
00:01:19,969 --> 00:01:16,979  
going to kick off with an interview with

23  
00:01:23,420 --> 00:01:19,979  
an old friend of mine the Skip doc dr.

24  
00:01:26,420 --> 00:01:23,430  
Harriet hall now dr. Harriet hall has

25  
00:01:28,070 --> 00:01:26,430  
recently just last week I think put

26  
00:01:31,550 --> 00:01:28,080  
online via the James Randi Educational

27  
00:01:33,469 --> 00:01:31,560  
Foundation their YouTube channel a

28  
00:01:36,830 --> 00:01:33,479  
series of 10 lectures about

29  
00:01:40,280 --> 00:01:36,840  
science-based medicine but as it happens

30  
00:01:43,940 --> 00:01:40,290  
most of the lectures concentrate on the

31  
00:01:45,859 --> 00:01:43,950  
pitfalls and the shortcomings and sort

32  
00:01:48,230 --> 00:01:45,869  
of an analysis of many alternative

33  
00:01:50,270 --> 00:01:48,240  
therapies in order to give one a better

34  
00:01:53,120 --> 00:01:50,280  
understanding of what science-based

35  
00:01:56,570 --> 00:01:53,130  
medicine is there are links are coming

36  
00:01:58,700 --> 00:01:56,580  
up in the interview of dr. Hall and the

37  
00:02:00,289 --> 00:01:58,710  
best advice I can give you is after

38  
00:02:01,760 --> 00:02:00,299

listening to the skeptic zone today

39

00:02:03,950 --> 00:02:01,770

tonight this evening this morning

40

00:02:05,870 --> 00:02:03,960

whenever you're listening to it run to

41

00:02:08,570 --> 00:02:05,880

the internet and check out this series

42

00:02:09,949 --> 00:02:08,580

of lectures by dr. Harriet hall more

43

00:02:12,860 --> 00:02:09,959

about that coming up at the top of the

44

00:02:15,620 --> 00:02:12,870

show following that it's the raw skeptic

45

00:02:17,470 --> 00:02:15,630

report with Heidi Robertson this week as

46

00:02:20,150 --> 00:02:17,480

part of her series into

47

00:02:23,960 --> 00:02:20,160

vaccine-preventable diseases Heidi will

48

00:02:27,740 --> 00:02:23,970

tell us about meningococcal a very very

49

00:02:30,410 --> 00:02:27,750

serious disease indeed sadly people

50

00:02:32,960 --> 00:02:30,420

still succumb to ninja kaka every year

51  
00:02:33,420 --> 00:02:32,970  
how it is going to be discussing what it

52  
00:02:35,940 --> 00:02:33,430  
is

53  
00:02:38,869 --> 00:02:35,950  
the symptoms to keep an eye out for and

54  
00:02:41,009 --> 00:02:38,879  
then she'll interview a survivor

55  
00:02:43,289 --> 00:02:41,019  
somebody who went through the horrors of

56  
00:02:46,619 --> 00:02:43,299  
meningococcal and came out the other

57  
00:02:48,479 --> 00:02:46,629  
side what an interesting interview it is

58  
00:02:50,759 --> 00:02:48,489  
man what an interesting report all over

59  
00:02:52,229 --> 00:02:50,769  
by Heidi Roberts and that's coming up a

60  
00:02:53,729 --> 00:02:52,239  
little bit later on in the show then we

61  
00:02:57,479 --> 00:02:53,739  
have a week inside some of the Royal

62  
00:02:59,780 --> 00:02:57,489  
Institution of Australia w WR I a u.s.

63  
00:03:02,369 --> 00:02:59,790

org a you what are the leading

64

00:03:04,740 --> 00:03:02,379

scientific organizations in Australia

65

00:03:06,539 --> 00:03:04,750

then the round off the show yes its main

66

00:03:09,360 --> 00:03:06,549

odd man out at Sydney's skeptics in the

67

00:03:11,970 --> 00:03:09,370

pub asking the big question what should

68

00:03:13,710 --> 00:03:11,980

you get a skeptic for Christmas what

69

00:03:15,360 --> 00:03:13,720

should you get a skeptic for Christmas

70

00:03:17,339 --> 00:03:15,370

and thanks to Ross spouts from the

71

00:03:19,110 --> 00:03:17,349

Brisbane skeptics society who is down

72

00:03:20,819 --> 00:03:19,120

here in city gave us a talk at sydney

73

00:03:23,759 --> 00:03:20,829

skeptics in the pub we're going to be

74

00:03:26,099 --> 00:03:23,769

hearing an interview with Ross on the

75

00:03:28,319 --> 00:03:26,109

next skeptics out next week so look out

76  
00:03:30,629 --> 00:03:28,329  
for that but this week may not chatting

77  
00:03:32,759 --> 00:03:30,639  
to various pub goes about what they

78  
00:03:35,789 --> 00:03:32,769  
think a good Christmas present for

79  
00:03:37,680 --> 00:03:35,799  
skeptics might be and don't forget

80  
00:03:40,199 --> 00:03:37,690  
people in Sydney skeptics in the pub

81  
00:03:42,180 --> 00:03:40,209  
first thursday of the month at the crown

82  
00:03:45,270 --> 00:03:42,190  
hotel the corner of goldman elizabeth

83  
00:03:46,710 --> 00:03:45,280  
streets and yes even in january even in

84  
00:03:48,240 --> 00:03:46,720  
generally the first thursday in january

85  
00:03:50,429 --> 00:03:48,250  
we're going to have a skeptics in the

86  
00:03:52,170 --> 00:03:50,439  
pub the best thing to do is to go to

87  
00:03:54,960 --> 00:03:52,180  
meet up and check out the links there or

88  
00:03:57,030 --> 00:03:54,970

just turn up six o'clock first thursday

89

00:03:59,240 --> 00:03:57,040

of the month that always be some

90

00:04:02,129 --> 00:03:59,250

skeptics Tanner we had some great times

91

00:04:04,259 --> 00:04:02,139

this one with Ross giving a talk which

92

00:04:06,509 --> 00:04:04,269

was fascinating and afterwards oh yes

93

00:04:10,499 --> 00:04:06,519

the dreaded spoon bending came out and

94

00:04:12,390 --> 00:04:10,509

people were what's the terms her half

95

00:04:14,309 --> 00:04:12,400

gobsmacked and half annoyed there's

96

00:04:16,560 --> 00:04:14,319

usually what you get when you bend

97

00:04:19,140 --> 00:04:16,570

spoons if you want to learn how to bend

98

00:04:21,029 --> 00:04:19,150

spoons that's the place to go but that's

99

00:04:23,939 --> 00:04:21,039

enough for me at the moment I'm going to

100

00:04:25,890 --> 00:04:23,949

run downstairs open the fridge I'm going

101  
00:04:31,409 --> 00:04:25,900  
to have the classic soda water with ice

102  
00:04:33,810 --> 00:04:31,419  
for a nice warm Sydney afternoon hmm

103  
00:04:35,460 --> 00:04:33,820  
that doesn't sound too bad at all well

104  
00:04:56,840 --> 00:04:35,470  
I'm doing that I hope you enjoy the

105  
00:05:03,000 --> 00:05:00,990  
and joining me now on the line from

106  
00:05:05,040 --> 00:05:03,010  
Washington State now there's a state ID

107  
00:05:06,930 --> 00:05:05,050  
like to visit one day and if I'm

108  
00:05:09,540 --> 00:05:06,940  
visiting Washington State I hope I can

109  
00:05:11,670 --> 00:05:09,550  
visit the home of the skeptic dr.

110  
00:05:15,930 --> 00:05:11,680  
Harriet hall joining me now hello

111  
00:05:18,870 --> 00:05:15,940  
Harriet hello Richard hello so nice to

112  
00:05:20,520 --> 00:05:18,880  
catch up with you I'm always pleased

113  
00:05:22,410 --> 00:05:20,530

want to think about you because I was

114

00:05:26,540 --> 00:05:22,420

the very first person to interview you

115

00:05:29,550 --> 00:05:26,550

for a podcast way back in 2007 I believe

116

00:05:32,280 --> 00:05:29,560

that's right that was on that cruise to

117

00:05:34,020 --> 00:05:32,290

Alaska yes the amazing adventure the the

118

00:05:36,300 --> 00:05:34,030

amazing invention north to Alaska with

119

00:05:37,950 --> 00:05:36,310

james randi you were there dr. Phil

120

00:05:40,230 --> 00:05:37,960

Plait was there a host of other people

121

00:05:41,790 --> 00:05:40,240

what it what a fun trip that was and we

122

00:05:43,440 --> 00:05:41,800

sat down and we had a bit of a chat

123

00:05:45,990 --> 00:05:43,450

because I was very interested in what

124

00:05:47,850 --> 00:05:46,000

you did in your background for the sake

125

00:05:51,210 --> 00:05:47,860

of our listeners Harriet can you tell

126

00:05:54,900 --> 00:05:51,220

our listeners of today of 2015 a little

127

00:05:57,120 --> 00:05:54,910

bit about your background I'm a medical

128

00:05:59,310 --> 00:05:57,130

doctor oh is a specialist in family

129

00:06:01,470 --> 00:05:59,320

practice and I spent 20 years in the Air

130

00:06:04,110 --> 00:06:01,480

Force where I was a flight surgeon for

131

00:06:06,300 --> 00:06:04,120

part of my career and I didn't start

132

00:06:08,850 --> 00:06:06,310

writing or investigating alternative

133

00:06:11,910 --> 00:06:08,860

medicine until after I was retired wow

134

00:06:13,740 --> 00:06:11,920

wow that that's quite impressive to to

135

00:06:16,290 --> 00:06:13,750

have that full career then retire then

136

00:06:18,990 --> 00:06:16,300

almost start a completely different

137

00:06:21,600 --> 00:06:19,000

career and this is something that's very

138

00:06:23,520 --> 00:06:21,610

much held your interest for some time

139

00:06:26,160 --> 00:06:23,530

now especially where all the time I've

140

00:06:27,510 --> 00:06:26,170

known you now you've been involved and

141

00:06:29,010 --> 00:06:27,520

the reason we're really chatting today

142

00:06:31,680 --> 00:06:29,020

you've been involved with a series of

143

00:06:33,900 --> 00:06:31,690

lectures which are up on the james randi

144

00:06:36,720 --> 00:06:33,910

educational foundations youtube channel

145

00:06:39,360 --> 00:06:36,730

and for those people wanting to have a

146

00:06:42,960 --> 00:06:39,370

look at that just go to [youtube.com /](https://www.youtube.com/)

147

00:06:44,430 --> 00:06:42,970

user / James Randi foundation one word

148

00:06:47,940 --> 00:06:44,440

and you'll see those lectures come up

149

00:06:50,490 --> 00:06:47,950

it's a series of 10 lectures and it's a

150

00:06:52,650 --> 00:06:50,500

it's interesting it's an interesting

151  
00:06:55,680 --> 00:06:52,660  
angle you've taken really the lectures

152  
00:06:57,210 --> 00:06:55,690  
are about science-based medicine but as

153  
00:06:59,880 --> 00:06:57,220  
it turns out most

154  
00:07:02,970 --> 00:06:59,890  
the lectures cover alternative medicine

155  
00:07:05,730 --> 00:07:02,980  
how does that work well I explained that

156  
00:07:09,570 --> 00:07:05,740  
in the first lecture there there's

157  
00:07:12,800 --> 00:07:09,580  
reason in my madness for one thing I

158  
00:07:14,940 --> 00:07:12,810  
think the best way to understand about

159  
00:07:17,880 --> 00:07:14,950  
to understand what science-based

160  
00:07:21,660 --> 00:07:17,890  
medicine is is to understand what it

161  
00:07:24,810 --> 00:07:21,670  
isn't if you think about it or if if you

162  
00:07:27,360 --> 00:07:24,820  
don't understand things that are not

163  
00:07:30,060 --> 00:07:27,370

good science if you can't pick out the

164

00:07:32,040 --> 00:07:30,070

flaws in a study that's not good science

165

00:07:34,590 --> 00:07:32,050

how could you ever be sure that

166

00:07:38,040 --> 00:07:34,600

something was a flawed didn't have those

167

00:07:42,600 --> 00:07:38,050

flaws and was good science and the other

168

00:07:45,300 --> 00:07:42,610

reason is that a lot of the alternative

169

00:07:47,550 --> 00:07:45,310

medicine modalities claim that they're

170

00:07:50,010 --> 00:07:47,560

based on science and they're not and I

171

00:07:52,800 --> 00:07:50,020

wanted people to understand what's wrong

172

00:07:54,570 --> 00:07:52,810

with their claims it's a very good point

173

00:07:57,390 --> 00:07:54,580

because especially a lot of the people I

174

00:07:59,490 --> 00:07:57,400

run into in the famous mind body spirit

175

00:08:01,440 --> 00:07:59,500

or mind-body wallet festivals will claim

176

00:08:03,360 --> 00:08:01,450

that their modality no matter how

177

00:08:06,240 --> 00:08:03,370

far-fetched and crazy it appears to us

178

00:08:08,430 --> 00:08:06,250

they'll claim it's it's science or its

179

00:08:10,920 --> 00:08:08,440

emerging science or something science

180

00:08:13,710 --> 00:08:10,930

has yet to to catch up on and this whole

181

00:08:16,530 --> 00:08:13,720

idea about has yet to be discovered by

182

00:08:19,200 --> 00:08:16,540

science has taken up by you in one of

183

00:08:22,590 --> 00:08:19,210

the lectures on something that goals me

184

00:08:23,730 --> 00:08:22,600

endlessly which is energy medicine can

185

00:08:28,800 --> 00:08:23,740

you tell us something about energy

186

00:08:31,560 --> 00:08:28,810

medicine well it's based on a myth are

187

00:08:33,659 --> 00:08:31,570

they believe that there are energies

188

00:08:36,149 --> 00:08:33,669

that haven't been detected by science

189

00:08:38,399 --> 00:08:36,159

yet but I just finished reading a

190

00:08:41,250 --> 00:08:38,409

wonderful book by Lisa Randall about how

191

00:08:43,230 --> 00:08:41,260

dark matter killed the dinosaurs and we

192

00:08:45,720 --> 00:08:43,240

know that there is dark matter and dark

193

00:08:47,790 --> 00:08:45,730

energy out there in the universe and we

194

00:08:50,400 --> 00:08:47,800

can measure it indirectly and understand

195

00:08:53,910 --> 00:08:50,410

things about it and we can measure the

196

00:08:57,150 --> 00:08:53,920

energies of subatomic particles down to

197

00:08:58,980 --> 00:08:57,160

just infinitesimally small levels the

198

00:09:01,110 --> 00:08:58,990

idea that there is a human energy field

199

00:09:03,210 --> 00:09:01,120

that we just haven't been able to

200

00:09:06,090 --> 00:09:03,220

measure yet is it's just totally

201  
00:09:09,390 --> 00:09:06,100  
ridiculous as far as I'm concerned yes

202  
00:09:11,160 --> 00:09:09,400  
but it's amazingly how it's amazing how

203  
00:09:14,850 --> 00:09:11,170  
strongly people will

204  
00:09:16,639 --> 00:09:14,860  
assume or believe or accept that there

205  
00:09:18,750 --> 00:09:16,649  
is this energy field they'll simply

206  
00:09:21,600 --> 00:09:18,760  
accept that as part of everyday life

207  
00:09:22,920 --> 00:09:21,610  
they'll build their health structure

208  
00:09:24,600 --> 00:09:22,930  
around and they'll build businesses

209  
00:09:26,610 --> 00:09:24,610  
around it we have aura cameras for

210  
00:09:28,680 --> 00:09:26,620  
example we have people who think that

211  
00:09:30,840 --> 00:09:28,690  
they can wave their hands around other

212  
00:09:32,430 --> 00:09:30,850  
people to tune their energies and feel

213  
00:09:34,740 --> 00:09:32,440

the vibrations and all this sort of

214

00:09:36,240 --> 00:09:34,750

thing so I'm glad you've covered energy

215

00:09:37,800 --> 00:09:36,250

medicine in fact what I'll do now is

216

00:09:42,180 --> 00:09:37,810

I'll play a little clip from the very

217

00:09:44,610 --> 00:09:42,190

first lecture which is you talking about

218

00:09:54,990 --> 00:09:44,620

all the lectures in the series let me

219

00:09:57,509 --> 00:09:55,000

play that now hello and welcome I'm dr.

220

00:10:00,030 --> 00:09:57,519

Harriet hall also known as the skeptic

221

00:10:02,689 --> 00:10:00,040

and this is the first in a series of ten

222

00:10:05,519 --> 00:10:02,699

lectures about science-based medicine in

223

00:10:08,009 --> 00:10:05,529

this first lecture I'll explain what

224

00:10:09,689 --> 00:10:08,019

science-based medicine is why it's

225

00:10:12,509 --> 00:10:09,699

important and how it's different from

226

00:10:14,280 --> 00:10:12,519

evidence-based medicine in the second

227

00:10:17,130 --> 00:10:14,290

lecture i'll talk about medicine it

228

00:10:20,519 --> 00:10:17,140

isn't based on science complementary and

229

00:10:23,220 --> 00:10:20,529

alternative medicine or cam in lectures

230

00:10:25,889 --> 00:10:23,230

3 through 8 i'll cover individual topics

231

00:10:28,410 --> 00:10:25,899

in cam that claim to be science-based

232

00:10:31,400 --> 00:10:28,420

but that are not chiropractic

233

00:10:34,280 --> 00:10:31,410

acupuncture homeopathy naturopathy

234

00:10:37,139 --> 00:10:34,290

energy medicine and miscellaneous others

235

00:10:39,810 --> 00:10:37,149

in lecture 9 i'll talk about some of the

236

00:10:41,639 --> 00:10:39,820

pitfalls in clinical research why we

237

00:10:44,340 --> 00:10:41,649

can't take every published study at face

238

00:10:46,860 --> 00:10:44,350

value and how to tell if a study is good

239

00:10:49,050 --> 00:10:46,870

science and in the final lecture i'll

240

00:10:50,939 --> 00:10:49,060

talk about how science-based medicine is

241

00:10:54,269 --> 00:10:50,949

misunderstood in the media and in

242

00:10:56,910 --> 00:10:54,279

politics i've prepared a course guide to

243

00:10:58,559 --> 00:10:56,920

accompany these lectures it summarizes

244

00:11:00,660 --> 00:10:58,569

the important information from each

245

00:11:03,329 --> 00:11:00,670

lecture and includes references and

246

00:11:06,030 --> 00:11:03,339

suggestions for further reading so there

247

00:11:07,259 --> 00:11:06,040

we are folks there are 10 lectures 10

248

00:11:10,350 --> 00:11:07,269

lectures which is pretty impressive

249

00:11:12,829 --> 00:11:10,360

there are about half an hour 35 minutes

250

00:11:16,050 --> 00:11:12,839

apiece which is nice viewing it's easy

251  
00:11:18,809 --> 00:11:16,060  
viewing you don't it doesn't demand too

252  
00:11:21,540 --> 00:11:18,819  
much of you to sit through one subject

253  
00:11:24,870 --> 00:11:21,550  
for our hours on end and I understand

254  
00:11:27,030 --> 00:11:24,880  
they're also study notes yes I put to go

255  
00:11:29,310 --> 00:11:27,040  
a course guide I tried to summarize the

256  
00:11:30,960 --> 00:11:29,320  
main points from each lecture and put

257  
00:11:33,540 --> 00:11:30,970  
some of the references and some

258  
00:11:35,670 --> 00:11:33,550  
suggestions for further reading I think

259  
00:11:38,750 --> 00:11:35,680  
that's wonderful because I think this

260  
00:11:42,540 --> 00:11:38,760  
will be a very good introduction to

261  
00:11:45,810 --> 00:11:42,550  
students especially skeptics everywhere

262  
00:11:47,550 --> 00:11:45,820  
will definitely benefit I'm benefiting

263  
00:11:50,480 --> 00:11:47,560

out of watching this series i've already

264

00:11:52,860 --> 00:11:50,490

started i'm enjoying it immensely it

265

00:11:55,890 --> 00:11:52,870

does a wonderful thing it will two

266

00:11:57,600 --> 00:11:55,900

wonderful things one it reminds me of

267

00:11:59,580 --> 00:11:57,610

things I've learned in the past and

268

00:12:01,770 --> 00:11:59,590

refreshes my memory but also I'm

269

00:12:03,870 --> 00:12:01,780

learning a lot and which is a great

270

00:12:06,510 --> 00:12:03,880

thing which is what something we all

271

00:12:09,480 --> 00:12:06,520

should do I bet you learned a lot when

272

00:12:11,190 --> 00:12:09,490

you were preparing these two I certainly

273

00:12:13,080 --> 00:12:11,200

did and that's the best way to learn

274

00:12:16,710 --> 00:12:13,090

things is to try to tell somebody else

275

00:12:17,850 --> 00:12:16,720

about them hey I suppose that's right we

276

00:12:19,040 --> 00:12:17,860

learn all sorts of interesting things

277

00:12:21,330 --> 00:12:19,050

like what's the difference between

278

00:12:22,830 --> 00:12:21,340

evidence-based medicine and science

279

00:12:26,850 --> 00:12:22,840

based medicine there's a good story

280

00:12:30,120 --> 00:12:26,860

about the scurvy and vitamin C and how

281

00:12:32,130 --> 00:12:30,130

that was remedied using science and not

282

00:12:35,070 --> 00:12:32,140

magic of course and things like that you

283

00:12:37,620 --> 00:12:35,080

talk about correlation naughty equaling

284

00:12:39,450 --> 00:12:37,630

causation all the goodies folks all the

285

00:12:41,790 --> 00:12:39,460

good stuffs there and as you heard

286

00:12:43,560 --> 00:12:41,800

Harriet discussed there's a homeopathy

287

00:12:46,440 --> 00:12:43,570

there's acupuncture there's all sorts of

288

00:12:52,080 --> 00:12:46,450

things now that website again folks is

289

00:12:53,880 --> 00:12:52,090

ww youtube.com / user / James Randi

290

00:12:56,250 --> 00:12:53,890

foundation or if you go to the show

291

00:12:57,510 --> 00:12:56,260

notes in this week's episode I certainly

292

00:12:59,160 --> 00:12:57,520

will link to it there and one of the

293

00:13:01,920 --> 00:12:59,170

other things that really caught my eye

294

00:13:04,200 --> 00:13:01,930

harried about this whole series is james

295

00:13:09,120 --> 00:13:04,210

randi sort of joins you for every

296

00:13:12,720 --> 00:13:09,130

episode yes hang up a james randi doll

297

00:13:14,790 --> 00:13:12,730

that he signed to me and it was on my

298

00:13:16,830 --> 00:13:14,800

bookcase and so we decided to have a

299

00:13:18,660 --> 00:13:16,840

little fun with it we moved it around in

300

00:13:21,420 --> 00:13:18,670

different places from one lecture to the

301

00:13:23,760 --> 00:13:21,430

next and one of them my husband

302

00:13:26,010 --> 00:13:23,770

suspended the doll upside down to

303

00:13:27,750 --> 00:13:26,020

commemorate those escapes that Randy be

304

00:13:30,000 --> 00:13:27,760

everybody was put in a straitjacket and

305

00:13:32,940 --> 00:13:30,010

dangled from a helicopter and so forth I

306

00:13:34,560 --> 00:13:32,950

think that's fantastic and just viewing

307

00:13:38,220 --> 00:13:34,570

the page

308

00:13:40,590 --> 00:13:38,230

at the moment those lectures have only

309

00:13:43,020 --> 00:13:40,600

been online for a matter of days I

310

00:13:44,940 --> 00:13:43,030

notice but already they're racking up

311

00:13:47,250 --> 00:13:44,950

views in the thousands and that's so

312

00:13:49,080 --> 00:13:47,260

encouraging that is so encouraged I'm so

313

00:13:50,370 --> 00:13:49,090

pleased to do it I guess it was an

314

00:13:52,290 --> 00:13:50,380

interesting process to put those

315

00:13:54,270 --> 00:13:52,300

together you are in your own home with a

316

00:13:56,220 --> 00:13:54,280

little camera set up did you have

317

00:13:59,790 --> 00:13:56,230

something like a teleprompter or an

318

00:14:02,820 --> 00:13:59,800

autocue well we had kind of a jury rig

319

00:14:05,310 --> 00:14:02,830

setup I had they text of everything I

320

00:14:08,100 --> 00:14:05,320

wanted to say in the note section of my

321

00:14:10,710 --> 00:14:08,110

powerpoint presentation so we have that

322

00:14:13,500 --> 00:14:10,720

out on a big computer screen in front of

323

00:14:15,510 --> 00:14:13,510

me and we mounted the camera just above

324

00:14:18,180 --> 00:14:15,520

it so I could read my notes and it

325

00:14:21,630 --> 00:14:18,190

looked like I was talking to the camera

326

00:14:23,580 --> 00:14:21,640

it works very well I I would have

327

00:14:27,090 --> 00:14:23,590

assumed watching it that you had a

328

00:14:29,070 --> 00:14:27,100

proper professional teleprompter rig

329

00:14:30,510 --> 00:14:29,080

setup because you read the notes so well

330

00:14:31,980 --> 00:14:30,520

and you you're still looking at the

331

00:14:34,260 --> 00:14:31,990

camera I think that that was very well

332

00:14:38,190 --> 00:14:34,270

done Harriet very well done full marks

333

00:14:42,150 --> 00:14:38,200

for that thank you so folks don't delay

334

00:14:43,830 --> 00:14:42,160

this is a must for every skeptic out

335

00:14:45,600 --> 00:14:43,840

there interested in science based

336

00:14:48,200 --> 00:14:45,610

medicine and all those alternative

337

00:14:51,090 --> 00:14:48,210

medicine practices Harriet covers

338

00:14:52,800 --> 00:14:51,100

youtube.com / user / James Randi

339

00:14:54,930 --> 00:14:52,810

foundation Thank You Harriet thank you

340

00:14:57,240 --> 00:14:54,940

so much for spending time to talk to us

341

00:14:59,280 --> 00:14:57,250

on the skeptic zone but really thank you

342

00:15:01,980 --> 00:14:59,290

for taking the time to put this series

343

00:15:03,960 --> 00:15:01,990

together thank you for helping me

344

00:15:05,610 --> 00:15:03,970

publicize it I hope it gets the word out

345

00:15:08,340 --> 00:15:05,620

to a lot of people that need to hear

346

00:15:11,730 --> 00:15:08,350

that information but now actually the

347

00:15:13,710 --> 00:15:11,740

and sincerely I think it's great it's a

348

00:15:14,940 --> 00:15:13,720

really good series and I think it's

349

00:15:17,820 --> 00:15:14,950

going to be a valuable resource for

350

00:15:37,120 --> 00:15:17,830

years to come ok well thank you very

351

00:15:43,100 --> 00:15:40,160

hello Richard and all the listeners of

352

00:15:46,040 --> 00:15:43,110

skeptic zone my name is Ron levy and I'm

353

00:15:47,930 --> 00:15:46,050

the producer and co-host of curious mind

354

00:15:54,860 --> 00:15:47,940

it's a podcast about science technology

355

00:15:57,079 --> 00:15:54,870

and history at wwc em-pod cmp OD dot net

356

00:15:59,329 --> 00:15:57,089

each episode will bring you interesting

357

00:16:01,819 --> 00:15:59,339

stories from a wide range of subjects

358

00:16:04,490 --> 00:16:01,829

from physics to astronomy and medicine

359

00:16:06,470 --> 00:16:04,500

from arts to science fiction we strive

360

00:16:08,780 --> 00:16:06,480

for the highest production values both

361

00:16:11,420 --> 00:16:08,790

in content and in delivery we already

362

00:16:13,879 --> 00:16:11,430

have on the air episodes about German

363

00:16:16,400 --> 00:16:13,889

u-boats in Second World War about the

364

00:16:19,639 --> 00:16:16,410

history of x-rays and the war of

365

00:16:40,889 --> 00:16:19,649

currents between Tesla and Edison come

366

00:16:55,000 --> 00:16:44,889

it's the raw skeptic report with ID

367

00:16:56,889 --> 00:16:55,010

Robertson hi everyone hardy Robertson

368

00:16:59,650 --> 00:16:56,899

from the Northern Rivers vaccination

369

00:17:02,350 --> 00:16:59,660

supporters coming to you today from the

370

00:17:06,340 --> 00:17:02,360

popular tourist destination of crystal

371

00:17:08,860 --> 00:17:06,350

castle in northern New South Wales one

372

00:17:11,980 --> 00:17:08,870

day I will do a skeptic zone report on

373

00:17:15,010 --> 00:17:11,990

some of the items for sale here but for

374

00:17:18,910 --> 00:17:15,020

today I'm just enjoying the sunshine and

375

00:17:20,140 --> 00:17:18,920

the beautiful gardens this report is

376

00:17:23,260 --> 00:17:20,150

another in my series of

377

00:17:25,350 --> 00:17:23,270

vaccine-preventable diseases I'm going

378

00:17:27,910 --> 00:17:25,360

to talk about meningococcal disease and

379

00:17:31,030 --> 00:17:27,920

include an interview I did a few weeks

380

00:17:33,070 --> 00:17:31,040

ago with Marty Mabry a survivor of

381

00:17:36,100 --> 00:17:33,080

meningococcal disease who has a

382

00:17:39,460 --> 00:17:36,110

frightening and yet inspiring story to

383

00:17:42,150 --> 00:17:39,470

share all references for the following

384

00:17:48,880 --> 00:17:42,160

information can be found on our website

385

00:17:52,780 --> 00:17:48,890

ww nrvs info firstly some facts about

386

00:17:54,910 --> 00:17:52,790

the disease meningococcal is a bacteria

387

00:17:58,090 --> 00:17:54,920

of which there are thirteen main

388

00:18:02,740 --> 00:17:58,100

subtypes in Australia the most common

389

00:18:05,740 --> 00:18:02,750

types are B and C meningococcal can

390

00:18:10,799 --> 00:18:05,750

cause two broad types of very serious

391

00:18:13,750 --> 00:18:10,809

disease meningitis and septicaemia

392

00:18:16,660 --> 00:18:13,760

meningitis means infection primarily of

393

00:18:19,419 --> 00:18:16,670

the lining of the brain and septicemia

394

00:18:23,200 --> 00:18:19,429

occurs when a bacterial infection enters

395

00:18:26,169 --> 00:18:23,210

the bloodstream meningitis can lead to

396

00:18:29,350 --> 00:18:26,179

septicemia and septicemia can lead to

397

00:18:32,470 --> 00:18:29,360

meningitis but often especially early on

398

00:18:36,580 --> 00:18:32,480

in the infection one type of disease is

399

00:18:38,950 --> 00:18:36,590

dominant there are many other causes of

400

00:18:41,799 --> 00:18:38,960

meningitis and septicaemia other than

401  
00:18:43,150 --> 00:18:41,809  
meningococcal but this bacteria causes

402  
00:18:47,140 --> 00:18:43,160  
particularly dangerous

403  
00:18:49,690 --> 00:18:47,150  
versions of these diseases once infected

404  
00:18:52,090 --> 00:18:49,700  
about ten to fifteen percent of

405  
00:18:55,810 --> 00:18:52,100  
otherwise fit and healthy young people

406  
00:18:59,290 --> 00:18:55,820  
will die often within hours or days of

407  
00:19:01,990 --> 00:18:59,300  
becoming unwell of those that survived

408  
00:19:05,490 --> 00:19:02,000  
the disease twenty to thirty percent end

409  
00:19:08,820 --> 00:19:05,500  
up permanently disabled with lost limbs

410  
00:19:13,330 --> 00:19:08,830  
hearing sight and/or permanent

411  
00:19:16,690 --> 00:19:13,340  
neurological dysfunction meningococcal

412  
00:19:18,430 --> 00:19:16,700  
disease is scary and it is important to

413  
00:19:20,860 --> 00:19:18,440

be vigilant for the signs of such a

414

00:19:23,770 --> 00:19:20,870

dangerous disease as early treatment

415

00:19:27,730 --> 00:19:23,780

such as antibiotics can literally be the

416

00:19:30,540 --> 00:19:27,740

difference between life or death in

417

00:19:34,110 --> 00:19:30,550

older children and adults be alert for

418

00:19:37,740 --> 00:19:34,120

fever possibly with cold hands and feet

419

00:19:39,940 --> 00:19:37,750

vomiting headache neck stiffness

420

00:19:44,490 --> 00:19:39,950

discomfort when looking at bright lights

421

00:19:48,180 --> 00:19:44,500

or photophobia aching or sore muscles

422

00:19:52,390 --> 00:19:48,190

painful or swollen joints fitting

423

00:19:56,800 --> 00:19:52,400

moaning unintelligible speech drowsiness

424

00:20:00,100 --> 00:19:56,810

and confusion collapse rash of red or

425

00:20:03,610 --> 00:20:00,110

purple pinprick spots or larger bruises

426

00:20:05,500 --> 00:20:03,620

in babies who obviously can't tell you

427

00:20:08,350 --> 00:20:05,510

that they have sore joints or headaches

428

00:20:12,120 --> 00:20:08,360

and neck stiffness additional signs to

429

00:20:14,800 --> 00:20:12,130

watch for are refusing feeds or vomiting

430

00:20:17,950 --> 00:20:14,810

irritability fretfulness grunting

431

00:20:21,430 --> 00:20:17,960

moaning or whimpering difficult to wake

432

00:20:25,570 --> 00:20:21,440

floppy a dislike of being handled

433

00:20:27,340 --> 00:20:25,580

arching back and stiff neck not all of

434

00:20:31,150 --> 00:20:27,350

these symptoms may be present and they

435

00:20:34,120 --> 00:20:31,160

may appear in any order so how

436

00:20:36,100 --> 00:20:34,130

contagious is it up to about twenty-five

437

00:20:37,780 --> 00:20:36,110

percent of the population live with the

438

00:20:39,640 --> 00:20:37,790

bacteria in the mucous of their

439

00:20:43,210 --> 00:20:39,650

respiratory tract without it causing

440

00:20:46,180 --> 00:20:43,220

disease it is passed between individuals

441

00:20:49,450 --> 00:20:46,190

by exchange of respiratory fluids for

442

00:20:52,300 --> 00:20:49,460

example kissing or by droplet spread

443

00:20:54,970 --> 00:20:52,310

coughing and sneezing passage between

444

00:20:56,950 --> 00:20:54,980

individuals is more likely where groups

445

00:20:59,440 --> 00:20:56,960

of susceptible people crowd

446

00:21:01,539 --> 00:20:59,450

gather for example childcare centers

447

00:21:03,880 --> 00:21:01,549

with babies and toddlers sharing toys

448

00:21:07,120 --> 00:21:03,890

and drink bottles or dummies or in

449

00:21:10,659 --> 00:21:07,130

schools on camps universities and dorms

450

00:21:12,789 --> 00:21:10,669

army barracks and in some individuals it

451  
00:21:17,200 --> 00:21:12,799  
can then go on to cause devastating

452  
00:21:19,360 --> 00:21:17,210  
disease in Australia the vaccination

453  
00:21:22,810 --> 00:21:19,370  
schedule includes meningococcal see at

454  
00:21:26,049 --> 00:21:22,820  
12 months of age one dose of the men see

455  
00:21:28,269 --> 00:21:26,059  
vaccine is between 83 and one hundred

456  
00:21:30,880 --> 00:21:28,279  
percent effective and widespread

457  
00:21:33,340 --> 00:21:30,890  
vaccination programs have meant that the

458  
00:21:36,010 --> 00:21:33,350  
sea strain is now much rarer than in the

459  
00:21:39,029 --> 00:21:36,020  
past and the B strain has taken its

460  
00:21:42,490 --> 00:21:39,039  
place as the most prevalent here a

461  
00:21:45,010 --> 00:21:42,500  
vaccine for the B strain bexsero is

462  
00:21:49,060 --> 00:21:45,020  
available here on the private market but

463  
00:21:52,930 --> 00:21:49,070

not yet on the schedule and now for

464

00:21:56,080 --> 00:21:52,940

Marty's story ok i'm here with Marty and

465

00:21:58,120 --> 00:21:56,090

marty first of all thank you for having

466

00:21:59,799 --> 00:21:58,130

me in your home in the northern rivers

467

00:22:02,740 --> 00:21:59,809

and thank you for talking to me on the

468

00:22:05,200 --> 00:22:02,750

skeptic zone no friends at all somali i

469

00:22:07,240 --> 00:22:05,210

believe you are northern rivers born and

470

00:22:09,399 --> 00:22:07,250

bred you grew up in barn Bay's at right

471

00:22:12,460 --> 00:22:09,409

that's great yeah so I grew up in Bombay

472

00:22:14,500 --> 00:22:12,470

and I've been away a little bit but yes

473

00:22:16,480 --> 00:22:14,510

been most my life in do ok and when you

474

00:22:19,180 --> 00:22:16,490

were growing up we use sort of aware of

475

00:22:20,799 --> 00:22:19,190

the low vaccination rates in the air was

476

00:22:22,899 --> 00:22:20,809

that a thing when you were growing up or

477

00:22:24,669 --> 00:22:22,909

not particularly i didn't really have an

478

00:22:26,860 --> 00:22:24,679

awareness of it i think it's probably

479

00:22:28,659 --> 00:22:26,870

being since coming back to the area that

480

00:22:30,039 --> 00:22:28,669

I've learned more about it but yeah

481

00:22:32,470 --> 00:22:30,049

growing up I didn't really know much

482

00:22:34,810 --> 00:22:32,480

about it at all yeah it's it's funny I

483

00:22:36,610 --> 00:22:34,820

and a few of my friends that live in the

484

00:22:39,310 --> 00:22:36,620

area as well when we first moved here

485

00:22:41,590 --> 00:22:39,320

not having grown up in the area we also

486

00:22:43,570 --> 00:22:41,600

came to the area and not having any idea

487

00:22:46,180 --> 00:22:43,580

that the vaccination rates was so low

488

00:22:48,250 --> 00:22:46,190

and it was only after having kids of our

489

00:22:51,130 --> 00:22:48,260

own and realizing what the situation was

490

00:22:54,130 --> 00:22:51,140

so when you're a teenager correct me if

491

00:22:56,950 --> 00:22:54,140

i'm wrong i think it was 2002 you

492

00:22:59,529 --> 00:22:56,960

contracted meningococcal it was the base

493

00:23:01,830 --> 00:22:59,539

drain wasn't it that you contracted can

494

00:23:04,180 --> 00:23:01,840

you sort of share with us what the

495

00:23:06,879 --> 00:23:04,190

circumstances were that that led up to

496

00:23:09,130 --> 00:23:06,889

you contracting the disease sure so I

497

00:23:11,170 --> 00:23:09,140

was actually in year 11 and I

498

00:23:13,990 --> 00:23:11,180

been on a school ski trip for a week

499

00:23:17,710 --> 00:23:14,000

down to south of Sydney to the snow

500

00:23:20,110 --> 00:23:17,720

fields and had got back after you know

501  
00:23:23,560 --> 00:23:20,120  
quite a long kind of bus trip and was

502  
00:23:26,020 --> 00:23:23,570  
pretty run down and felt you know been

503  
00:23:29,980 --> 00:23:26,030  
unwell at school you know headache sore

504  
00:23:32,890 --> 00:23:29,990  
joints went home took a couple of had it

505  
00:23:35,680 --> 00:23:32,900  
all and went to sleep and woke up very

506  
00:23:38,890 --> 00:23:35,690  
unwell next morning but it was really

507  
00:23:40,720 --> 00:23:38,900  
just you know after a big kind of a trip

508  
00:23:42,970 --> 00:23:40,730  
well it was the long week with not much

509  
00:23:45,280 --> 00:23:42,980  
sleep we're all quite rundown and all

510  
00:23:48,550 --> 00:23:45,290  
staying in close quarters in bunk beds

511  
00:23:51,370 --> 00:23:48,560  
in this accommodation at the snow at the

512  
00:23:54,610 --> 00:23:51,380  
time did anyone else on that trip come

513  
00:23:56,890 --> 00:23:54,620

down with it you have any idea where you

514

00:24:00,460 --> 00:23:56,900

have what came about that you picked it

515

00:24:02,350 --> 00:24:00,470

up not particularly so no one else got

516

00:24:04,960 --> 00:24:02,360

sick on the trip they're all treated

517

00:24:08,410 --> 00:24:04,970

with antibiotics mm-hmm afterwards or

518

00:24:11,170 --> 00:24:08,420

when I when I fell ill and the subtype

519

00:24:13,510 --> 00:24:11,180

that I got had not been identified in

520

00:24:15,580 --> 00:24:13,520

Australia yet so I mean that's not to

521

00:24:19,240 --> 00:24:15,590

say that it wasn't there but it was

522

00:24:20,770 --> 00:24:19,250

there wasn't really a clear as is the

523

00:24:22,240 --> 00:24:20,780

case quite often that you don't exactly

524

00:24:24,490 --> 00:24:22,250

know where it's come from what who is

525

00:24:27,330 --> 00:24:24,500

transmitted it to you so I think that

526

00:24:30,880 --> 00:24:27,340

I've the statistic says something like

527

00:24:34,000 --> 00:24:30,890

one in four or five people actually

528

00:24:35,860 --> 00:24:34,010

carry the bacteria in their throats and

529

00:24:39,580 --> 00:24:35,870

noses is that right just doesn't cause

530

00:24:40,960 --> 00:24:39,590

usually any problems until when does it

531

00:24:42,790 --> 00:24:40,970

become a problem if one in five people

532

00:24:44,500 --> 00:24:42,800

are carrying the bacteria around when

533

00:24:47,530 --> 00:24:44,510

does it become a problem for themselves

534

00:24:49,840 --> 00:24:47,540

or others so a lot of people will say

535

00:24:51,760 --> 00:24:49,850

yeah you're right between ten percent

536

00:24:53,500 --> 00:24:51,770

and twenty percent of people can carry

537

00:24:55,860 --> 00:24:53,510

the bacteria in their nose and throat

538

00:24:59,080 --> 00:24:55,870

and be colonized is that they say

539

00:25:00,520 --> 00:24:59,090

without you know you'd ever causing a

540

00:25:03,850 --> 00:25:00,530

problem you know it's quite a rare

541

00:25:05,620 --> 00:25:03,860

disease to contract my understanding is

542

00:25:08,730 --> 00:25:05,630

that the people who are actually going

543

00:25:11,560 --> 00:25:08,740

to become unwell with it will actually

544

00:25:13,780 --> 00:25:11,570

get the disease quite quickly they won't

545

00:25:17,110 --> 00:25:13,790

remain colonized for a period and then

546

00:25:18,310 --> 00:25:17,120

somehow four-wheel but you're right i

547

00:25:18,890 --> 00:25:18,320

mean that there are a lot of people in

548

00:25:21,260 --> 00:25:18,900

the community

549

00:25:23,480 --> 00:25:21,270

powering the bug in their nose and

550

00:25:25,640 --> 00:25:23,490

throws and but will never be affected by

551

00:25:28,370 --> 00:25:25,650

it I never know that they're carrying it

552

00:25:30,890 --> 00:25:28,380

is right hmm okay take us through the

553

00:25:33,020 --> 00:25:30,900

story from when you woke up very unwell

554

00:25:34,970 --> 00:25:33,030

the next morning did you feel yourself

555

00:25:36,680 --> 00:25:34,980

were you aware at that point that there

556

00:25:38,840 --> 00:25:36,690

was something very serious going on or

557

00:25:42,230 --> 00:25:38,850

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

558

00:25:44,420 --> 00:25:42,240

flu type thing I I mean I'd never heard

559

00:25:46,370 --> 00:25:44,430

of meningococcal and I and I didn't have

560

00:25:49,790 --> 00:25:46,380

much awareness of infectious diseases or

561

00:25:51,860 --> 00:25:49,800

anything at the time I woke up and in

562

00:25:53,540 --> 00:25:51,870

hindsight I was quite confused overnight

563

00:25:56,900 --> 00:25:53,550

with high fevers and I woke up not

564

00:25:59,210 --> 00:25:56,910

knowing how serious it was at all really

565

00:26:01,100 --> 00:25:59,220

and so I was taking the bombay hospital

566

00:26:04,610 --> 00:26:01,110

and then quickly transferred to lismore

567

00:26:06,350 --> 00:26:04,620

base hospital and you know in there ed

568

00:26:08,990 --> 00:26:06,360

they kind of started treatment and then

569

00:26:11,930 --> 00:26:09,000

I was actually induced into economy and

570

00:26:14,720 --> 00:26:11,940

taken away see you and so this whole

571

00:26:17,060 --> 00:26:14,730

time I had no idea how unwell i was and

572

00:26:19,520 --> 00:26:17,070

i had no no I wanted said to me all

573

00:26:21,860 --> 00:26:19,530

you've got x chance of surviving or

574

00:26:23,870 --> 00:26:21,870

dying at all because I mean they may

575

00:26:25,910 --> 00:26:23,880

have said it but I was not comprehending

576

00:26:28,220 --> 00:26:25,920

what was happening particularly anyway

577

00:26:31,700 --> 00:26:28,230

so it was all a bit of a kind of blur

578

00:26:33,320 --> 00:26:31,710

for me yeah and and at that point say

579

00:26:36,530 --> 00:26:33,330

you had all this sort of cold and flu

580

00:26:39,260 --> 00:26:36,540

symptoms and obviously disorientation

581

00:26:40,970 --> 00:26:39,270

and confusion and and that's when they

582

00:26:43,520 --> 00:26:40,980

diagnosed you and put you into the

583

00:26:46,460 --> 00:26:43,530

induced coma so you you wouldn't have

584

00:26:48,290 --> 00:26:46,470

been aware until you woke up really that

585

00:26:51,290 --> 00:26:48,300

you had meningococcal is that right

586

00:26:53,660 --> 00:26:51,300

exactly right and so I had a you know a

587

00:26:56,030 --> 00:26:53,670

huge rash all over my body that you know

588

00:26:57,860 --> 00:26:56,040

you sometimes it because of big purple

589

00:26:59,510 --> 00:26:57,870

rash so what I mean once you get that

590

00:27:01,280 --> 00:26:59,520

point it's very clear what the what the

591

00:27:03,590 --> 00:27:01,290

cause is an ideal you pick it up before

592

00:27:05,780 --> 00:27:03,600

that but you're correct i didn't have

593

00:27:07,760 --> 00:27:05,790

any understanding of what had happened

594

00:27:10,010 --> 00:27:07,770

until i woke up a couple of weeks later

595

00:27:12,260 --> 00:27:10,020

really from that kind of looked like

596

00:27:13,880 --> 00:27:12,270

brought me out of that coma and then I

597

00:27:16,550 --> 00:27:13,890

was they kind of told me what happened

598

00:27:18,980 --> 00:27:16,560

and that's what well a couple of weeks

599

00:27:22,640 --> 00:27:18,990

hmm what actually happens in the body

600

00:27:25,370 --> 00:27:22,650

when the bacteria takes hold you

601  
00:27:27,380 --> 00:27:25,380  
mentioned that the purple rash which I

602  
00:27:29,060 --> 00:27:27,390  
think it's one of the later stages of

603  
00:27:31,250 --> 00:27:29,070  
the diseases and it's over by the time

604  
00:27:32,690 --> 00:27:31,260  
you actually notice that rash that's not

605  
00:27:35,120 --> 00:27:32,700  
one of the first symptoms

606  
00:27:36,440 --> 00:27:35,130  
you see what actually causes that rash

607  
00:27:39,410 --> 00:27:36,450  
what's happening in the body to cause

608  
00:27:42,230 --> 00:27:39,420  
that rash you are using the right it's a

609  
00:27:44,990 --> 00:27:42,240  
light sign or a light thing that happens

610  
00:27:48,580 --> 00:27:45,000  
in the course of the disease so as the

611  
00:27:52,190 --> 00:27:48,590  
bacteria enters the bloodstream it's it

612  
00:27:54,680 --> 00:27:52,200  
will multiply incredibly quickly and as

613  
00:27:57,980 --> 00:27:54,690

a response to overwhelming infection

614

00:27:59,600 --> 00:27:57,990

your body will basically all the blood

615

00:28:02,840 --> 00:27:59,610

vessels in the periphery of your body

616

00:28:05,270 --> 00:28:02,850

will open up and you will actually end

617

00:28:09,230 --> 00:28:05,280

up with a rash which you're essentially

618

00:28:11,330 --> 00:28:09,240

bleeding into your skin because the the

619

00:28:13,310 --> 00:28:11,340

way the infection takes hold will

620

00:28:15,530 --> 00:28:13,320

actually use up a lot of the factors in

621

00:28:18,200 --> 00:28:15,540

your blood which allow it to clot and so

622

00:28:20,360 --> 00:28:18,210

you will end up kind of bleeding into

623

00:28:23,000 --> 00:28:20,370

your tissues and when you're in that

624

00:28:26,480 --> 00:28:23,010

late stage with that very widespread

625

00:28:31,340 --> 00:28:26,490

purple rash it's a quite a dire sign and

626

00:28:32,990 --> 00:28:31,350

and if if you do come to hospital that

627

00:28:34,910 --> 00:28:33,000

point they say that your chances of

628

00:28:37,730 --> 00:28:34,920

survival are quite low because you're

629

00:28:38,930 --> 00:28:37,740

exactly right it's a very late hmm part

630

00:28:40,790 --> 00:28:38,940

of the disease and so the disease

631

00:28:42,410 --> 00:28:40,800

process is already kind of well and

632

00:28:44,720 --> 00:28:42,420

truly kicking it's well and truly

633

00:28:46,670 --> 00:28:44,730

throughout your body and so that purple

634

00:28:48,950 --> 00:28:46,680

rash that we see under their skin in the

635

00:28:52,460 --> 00:28:48,960

pictures that we see is actually blood

636

00:28:54,290 --> 00:28:52,470

underneath the skin I guess a good tip

637

00:28:57,440 --> 00:28:54,300

for people as well is that it's a non

638

00:29:00,890 --> 00:28:57,450

blanching rash as in I was always taught

639

00:29:03,320 --> 00:29:00,900

to the glass test it was called so can

640

00:29:05,330 --> 00:29:03,330

you explain what what that's about so

641

00:29:08,300 --> 00:29:05,340

you're exactly right it's called a non

642

00:29:09,920 --> 00:29:08,310

blanching ration basically it's a fancy

643

00:29:13,550 --> 00:29:09,930

way of saying that when you can press

644

00:29:15,230 --> 00:29:13,560

the skin the rash won't disappear so if

645

00:29:17,930 --> 00:29:15,240

you use a glass which you can see

646

00:29:20,150 --> 00:29:17,940

through and you compress over or you put

647

00:29:23,930 --> 00:29:20,160

pressure over one of these small red

648

00:29:25,340 --> 00:29:23,940

areas it will remain there even with the

649

00:29:28,010 --> 00:29:25,350

pressure whereas a lot of other rashes

650

00:29:30,440 --> 00:29:28,020

will disappear I mean it's not one of

651  
00:29:32,450 --> 00:29:30,450  
those things that's absolutely you know

652  
00:29:35,840 --> 00:29:32,460  
one hundred percent to say that if the

653  
00:29:38,390 --> 00:29:35,850  
rash is a blanching rash then you're

654  
00:29:41,360 --> 00:29:38,400  
Your Honor in the clear but it's a good

655  
00:29:44,000 --> 00:29:41,370  
one to kind of have in mind it's just

656  
00:29:46,610 --> 00:29:44,010  
another tool I surprise yeah tell me

657  
00:29:49,220 --> 00:29:46,620  
what they when you are in the induced

658  
00:29:52,250 --> 00:29:49,230  
coma what were your parents told what

659  
00:29:53,600 --> 00:29:52,260  
your chances of survival were pretty low

660  
00:29:56,299 --> 00:29:53,610  
so I think they went through a lot more

661  
00:29:58,220 --> 00:29:56,309  
than I did I think when I was brought

662  
00:30:01,220 --> 00:29:58,230  
into hospital everyone recognized that I

663  
00:30:05,120 --> 00:30:01,230

was very unwell and my parents were told

664

00:30:07,130 --> 00:30:05,130

I believe initially you know maybe five

665

00:30:10,159 --> 00:30:07,140

to ten percent chance of survival and

666

00:30:12,380 --> 00:30:10,169

then when i had my legs amputated i had

667

00:30:14,060 --> 00:30:12,390

other issues with bleeding and so that

668

00:30:18,230 --> 00:30:14,070

again was a bit of a kind of scary

669

00:30:21,799 --> 00:30:18,240

period for them but they they went

670

00:30:25,070 --> 00:30:21,809

through probably 72 hours 48 72 hours

671

00:30:26,630 --> 00:30:25,080

where you know we hadn't quite turned

672

00:30:29,810 --> 00:30:26,640

around yet and they was still very

673

00:30:32,779 --> 00:30:29,820

unsure as to whether i would survive my

674

00:30:35,270 --> 00:30:32,789

frightening time yeah so both legs

675

00:30:37,250 --> 00:30:35,280

amputated did that that that happened

676

00:30:41,060 --> 00:30:37,260

whilst you were in the induced coma it

677

00:30:43,940 --> 00:30:41,070

did so basically they you know they

678

00:30:45,409 --> 00:30:43,950

brought me to ICU and and stabilize my

679

00:30:47,870 --> 00:30:45,419

blood pressure and all those things that

680

00:30:52,630 --> 00:30:47,880

kind of just go hey why when your ground

681

00:30:55,610 --> 00:30:52,640

well and as a consequence of the disease

682

00:30:59,330 --> 00:30:55,620

my feet the the kind of tissue in my

683

00:31:01,730 --> 00:30:59,340

feet died so they were trying to you

684

00:31:04,430 --> 00:31:01,740

know save and protect as much of that as

685

00:31:06,320 --> 00:31:04,440

I because they could but when it became

686

00:31:08,120 --> 00:31:06,330

clear that leaving them on was just

687

00:31:11,149 --> 00:31:08,130

gonna you know poison me a set

688

00:31:12,470 --> 00:31:11,159

effectively I'm not sure the exact

689

00:31:14,899 --> 00:31:12,480

timing but it would have been in the

690

00:31:17,090 --> 00:31:14,909

first few days I believe that they made

691

00:31:19,850 --> 00:31:17,100

the decision to imitate my later so that

692

00:31:21,710 --> 00:31:19,860

was I wasn't aware of that really until

693

00:31:23,649 --> 00:31:21,720

although it's interesting actually had

694

00:31:26,840 --> 00:31:23,659

some awareness of what was going on

695

00:31:28,970 --> 00:31:26,850

during this coma because it's a you know

696

00:31:33,110 --> 00:31:28,980

it's used to date it effectively it's

697

00:31:35,570 --> 00:31:33,120

not as heavy as some general anesthetics

698

00:31:36,680 --> 00:31:35,580

I as such funny as it sounds I had to

699

00:31:40,250 --> 00:31:36,690

actually knew that that had happened

700

00:31:42,200 --> 00:31:40,260

while I was in this cone Mona and I woke

701  
00:31:44,870 --> 00:31:42,210  
up you know they kind of told me at that

702  
00:31:47,240 --> 00:31:44,880  
point which I believe that I already

703  
00:31:48,029 --> 00:31:47,250  
kind of knew what had happened some

704  
00:31:51,269 --> 00:31:48,039  
degree which

705  
00:31:53,969 --> 00:31:51,279  
well it sounds silly to say but it would

706  
00:31:56,190 --> 00:31:53,979  
have been a huge process at journey for

707  
00:31:58,680 --> 00:31:56,200  
you then to come to terms with that and

708  
00:32:00,989 --> 00:31:58,690  
also the the rehabilitation process as

709  
00:32:05,009 --> 00:32:00,999  
well definitely and I saw what I didn't

710  
00:32:07,499 --> 00:32:05,019  
know when they when I woke up and what

711  
00:32:10,649 --> 00:32:07,509  
was a real shock was how close I was to

712  
00:32:13,649 --> 00:32:10,659  
dying so that five to ten percent thing

713  
00:32:17,759 --> 00:32:13,659

I mean I had no idea but you did recover

714

00:32:20,879 --> 00:32:17,769

very well and I believe that 2010 was a

715

00:32:22,379 --> 00:32:20,889

particularly busy and successful year

716

00:32:26,369 --> 00:32:22,389

for you can you share with us what

717

00:32:28,469 --> 00:32:26,379

happened in 2010 certainly so I had

718

00:32:30,739 --> 00:32:28,479

always been a skier before this it all

719

00:32:34,409 --> 00:32:30,749

happened and I got involved in

720

00:32:37,589 --> 00:32:34,419

Paralympic sports after I am a bit empty

721

00:32:40,409 --> 00:32:37,599

at it so I've been skiing from about

722

00:32:43,469 --> 00:32:40,419

2000 and 3000 and four and going to

723

00:32:45,359 --> 00:32:43,479

Torino pelvic games and on to Vancouver

724

00:32:48,239 --> 00:32:45,369

pound of the games and won a silver

725

00:32:51,690 --> 00:32:48,249

medal there in the downhill event of a

726  
00:32:54,629 --> 00:32:51,700  
power plants king and started medicine

727  
00:32:58,080 --> 00:32:54,639  
that year started studying medicine and

728  
00:33:00,119 --> 00:32:58,090  
also got married in 2010 it was a big

729  
00:33:01,529 --> 00:33:00,129  
year it must be difficult for you not

730  
00:33:04,200 --> 00:33:01,539  
only on a professional level but a

731  
00:33:07,409 --> 00:33:04,210  
personal level to to have patients that

732  
00:33:10,799 --> 00:33:07,419  
refuse vaccinations after what you have

733  
00:33:13,259 --> 00:33:10,809  
the personal cost has been to you is

734  
00:33:15,089 --> 00:33:13,269  
there ever a time when you have shared

735  
00:33:17,460 --> 00:33:15,099  
your story with those patients and have

736  
00:33:18,899 --> 00:33:17,470  
they been swayed at all by it a lot of

737  
00:33:21,330 --> 00:33:18,909  
the time it's amazing people will

738  
00:33:23,070 --> 00:33:21,340

completely turn around and say you're

739

00:33:26,460 --> 00:33:23,080

right you know I've never thought of it

740

00:33:28,349 --> 00:33:26,470

like that and then hopefully hmm go and

741

00:33:30,539 --> 00:33:28,359

vaccinate their children yeah so it's

742

00:33:33,629 --> 00:33:30,549

it's such an important thing for us all

743

00:33:35,339 --> 00:33:33,639

to have those conversations and make

744

00:33:37,649 --> 00:33:35,349

sure that the information out there is

745

00:33:39,779 --> 00:33:37,659

the correct information and I guess to

746

00:33:41,940 --> 00:33:39,789

correct any misinformation we see on

747

00:33:43,649 --> 00:33:41,950

social media and in our circle of

748

00:33:46,289 --> 00:33:43,659

friends and start getting the

749

00:33:48,119 --> 00:33:46,299

conversations going Thank You Marty for

750

00:33:50,940 --> 00:33:48,129

your time and for having me in your home

751  
00:33:53,430 --> 00:33:50,950  
we've had a few whipper snipper noises

752  
00:33:56,070 --> 00:33:53,440  
in the background and some birds and but

753  
00:33:57,749 --> 00:33:56,080  
you get that in the northern rivers so

754  
00:33:59,430 --> 00:33:57,759  
thank you very much for joining me Marty

755  
00:34:01,580 --> 00:33:59,440  
it's been a pleasure to speak with you

756  
00:34:04,130 --> 00:34:01,590  
and thank you you

757  
00:34:07,100 --> 00:34:04,140  
my brother that's all from me for this

758  
00:34:11,810 --> 00:34:07,110  
week you can find more information and

759  
00:34:13,609 --> 00:34:11,820  
get in touch with me at nrvs info or at

760  
00:34:16,940 --> 00:34:13,619  
our Facebook page Northern Rivers

761  
00:34:21,649 --> 00:34:16,950  
vaccination supporters or on Twitter at

762  
00:34:25,339 --> 00:34:21,659  
Heidi howdy but for now I'm off to enjoy

763  
00:34:40,460 --> 00:34:25,349

a piece of gluten Laden chocolate cake

764

00:34:42,740 --> 00:34:40,470

from the bakery till next time welcome

765

00:34:44,930 --> 00:34:42,750

to a weakened science arias bringing

766

00:34:47,690 --> 00:34:44,940

years science you need to know it has

767

00:34:49,730 --> 00:34:47,700

been a weird year in science in 2015 and

768

00:35:00,020 --> 00:34:49,740

get ready to get freaky because this is

769

00:35:02,089 --> 00:35:00,030

our weird five of the year at number

770

00:35:05,210 --> 00:35:02,099

five we have the tastiest study of the

771

00:35:07,520 --> 00:35:05,220

year the science of how popcorn pops the

772

00:35:09,800 --> 00:35:07,530

critical temperature is 180 degrees

773

00:35:12,140 --> 00:35:09,810

Celsius when the internal pressure of

774

00:35:14,990 --> 00:35:12,150

the corn kernel reaches around 10 bar

775

00:35:17,150 --> 00:35:15,000

the jump is caused by a leg of molten

776  
00:35:19,040 --> 00:35:17,160  
starch pushing against the surface under

777  
00:35:23,810 --> 00:35:19,050  
the kernel and the sound is from the

778  
00:35:26,180 --> 00:35:23,820  
expulsion of pressurized gas bees love

779  
00:35:28,099 --> 00:35:26,190  
getting buzzed from caffeine caffeine

780  
00:35:31,130 --> 00:35:28,109  
aids nectar which some flowers produce

781  
00:35:33,859 --> 00:35:31,140  
is preferred by bees with them ignoring

782  
00:35:35,810 --> 00:35:33,869  
other non caffeinated actor even when

783  
00:35:38,180 --> 00:35:35,820  
the caffeinated stuff is all used up

784  
00:35:40,160 --> 00:35:38,190  
they are also more eager to tell the

785  
00:35:41,720 --> 00:35:40,170  
rest of the hive in fact they kind of

786  
00:35:46,190 --> 00:35:41,730  
acts like they're a little bit hyper

787  
00:35:48,410 --> 00:35:46,200  
active from the caffeine many humans

788  
00:35:51,050 --> 00:35:48,420

like to have a bit of a tippie and now

789

00:35:53,420 --> 00:35:51,060

it's been observed some chimpanzees also

790

00:35:55,310 --> 00:35:53,430

like to get drunk chimps were seen to be

791

00:35:57,710 --> 00:35:55,320

climbing palm trees and drinking

792

00:35:59,359 --> 00:35:57,720

fermented alcoholic palm sap that the

793

00:36:01,970 --> 00:35:59,369

locals have been collecting from those

794

00:36:04,790 --> 00:36:01,980

trees they even worked out a way to use

795

00:36:06,500 --> 00:36:04,800

leaves to scoop the drink afterwards the

796

00:36:08,760 --> 00:36:06,510

chimps were seem to be acting in a

797

00:36:11,440 --> 00:36:08,770

drunken way

798

00:36:14,170 --> 00:36:11,450

at number two is one that nobody

799

00:36:16,480 --> 00:36:14,180

believes you sniff your hand after a

800

00:36:18,820 --> 00:36:16,490

handshake to detect the odor of the

801  
00:36:21,100 --> 00:36:18,830  
other person the Israelis study used

802  
00:36:23,470 --> 00:36:21,110  
hidden cameras to find that people smell

803  
00:36:25,930 --> 00:36:23,480  
their hands twice as much after a

804  
00:36:28,030 --> 00:36:25,940  
handshake but they're sneaky about it it

805  
00:36:29,740 --> 00:36:28,040  
seems to be an unconscious movement to

806  
00:36:32,760 --> 00:36:29,750  
check out the other person's odor

807  
00:36:36,790 --> 00:36:32,770  
communication just trust me you do it

808  
00:36:38,770 --> 00:36:36,800  
and our weird science story of year

809  
00:36:41,320 --> 00:36:38,780  
people are surrounded by unique

810  
00:36:43,750 --> 00:36:41,330  
microbial cloud we're covered in

811  
00:36:46,510 --> 00:36:43,760  
bacteria and every time we move we shed

812  
00:36:48,550 --> 00:36:46,520  
some of our skin creating a cloud that

813  
00:36:51,940 --> 00:36:48,560

is thought to extend a few feet around

814

00:36:54,280 --> 00:36:51,950

us it has also been found this cloud is

815

00:36:56,290 --> 00:36:54,290

as unique as a fingerprint people can

816

00:37:01,120 --> 00:36:56,300

actually be identified using the

817

00:37:03,940 --> 00:37:01,130

bacterial composition that's our weird 5

818

00:37:07,630 --> 00:37:03,950

science stories from 2015 there's more

819

00:37:11,140 --> 00:37:07,640

information on the Arias website RI aus

820

00:37:13,600 --> 00:37:11,150

org a you follow us on twitter at r oz

821

00:37:41,870 --> 00:37:13,610

and like us on facebook i'm ben lewis

822

00:37:48,960 --> 00:37:46,200

hi are you a skeptic living somewhere in

823

00:37:51,060 --> 00:37:48,970

Europe or simply interested in what like

824

00:37:53,660 --> 00:37:51,070

minded people are up to in countries

825

00:37:56,640 --> 00:37:53,670

around here I have good news for you

826

00:37:58,920 --> 00:37:56,650

there is a new podcast out there with

827

00:38:04,080 --> 00:37:58,930

the aim of helping you connect with all

828

00:38:07,740 --> 00:38:04,090

those European skeptics the ESP European

829

00:38:09,690 --> 00:38:07,750

skeptics podcast a biweekly show coming

830

00:38:13,860 --> 00:38:09,700

out on the 18th of November on

831

00:38:17,400 --> 00:38:13,870

soundcloud iTunes and stitcher come and

832

00:38:20,280 --> 00:38:17,410

visit our website the ESP you follow us

833

00:38:23,090 --> 00:38:20,290

on Facebook and Twitter and help us keep

834

00:38:27,210 --> 00:38:23,100

the project genuinely international and

835

00:38:36,750 --> 00:38:27,220

interactive let us provide you with a

836

00:38:59,010 --> 00:38:51,460

I don't know I you can't believe here's

837

00:39:02,590 --> 00:39:00,970

course here at skeptics the pub we

838

00:39:03,970 --> 00:39:02,600

always throw questions after people that

839

00:39:04,720 --> 00:39:03,980

make them each and make them scratch and

840

00:39:06,880 --> 00:39:04,730

make them look like they've been

841

00:39:10,540 --> 00:39:06,890

affected with the question virus and

842

00:39:12,250 --> 00:39:10,550

tonight's question will be ripped what

843

00:39:15,400 --> 00:39:12,260

should you get a skeptic for Christmas

844

00:39:16,900 --> 00:39:15,410

what is a ideal Christmas gift for a

845

00:39:18,820 --> 00:39:16,910

skeptic now we're going to try and avoid

846

00:39:19,960 --> 00:39:18,830

any buzz marketing here or anything like

847

00:39:21,490 --> 00:39:19,970

that I mentioned some people probably

848

00:39:22,990 --> 00:39:21,500

promote dick smith who won't have that

849

00:39:25,450 --> 00:39:23,000

he doesn't own the shop anymore anyway

850

00:39:27,520 --> 00:39:25,460

so what should you get a skeptic for

851  
00:39:30,910 --> 00:39:27,530  
Christmas which was I think a song from

852  
00:39:34,410 --> 00:39:30,920  
my fair lady what would I give to a

853  
00:39:36,700 --> 00:39:34,420  
skeptic probably a box of handkerchiefs

854  
00:39:40,540 --> 00:39:36,710  
that's a good that's always a good gift

855  
00:39:42,490 --> 00:39:40,550  
isn't it yeah and maybe some undies yes

856  
00:39:45,460 --> 00:39:42,500  
what days of the week written on them

857  
00:39:46,930 --> 00:39:45,470  
yeah yes well I'm Alex I've been

858  
00:39:51,490 --> 00:39:46,940  
listening to the skipping zone for

859  
00:39:52,960 --> 00:39:51,500  
several months and I like it a lot and I

860  
00:39:56,770 --> 00:39:52,970  
think the idea was present present for a

861  
00:39:59,770 --> 00:39:56,780  
psychic would be for a skeptic it would

862  
00:40:02,470 --> 00:39:59,780  
be a psychic in a cage say sally morgan

863  
00:40:04,710 --> 00:40:02,480

in a cage oh that certainly make the the

864

00:40:07,420 --> 00:40:04,720

northern skeptics pretty happy in the UK

865

00:40:08,740 --> 00:40:07,430

no I were imagined they would they

866

00:40:10,300 --> 00:40:08,750

wouldn't I would have you know they

867

00:40:11,990 --> 00:40:10,310

could make money selling tickets to go

868

00:40:14,420 --> 00:40:12,000

and see it

869

00:40:16,130 --> 00:40:14,430

and look I asked everybody this I'll

870

00:40:17,660 --> 00:40:16,140

just asking quickly what is is that the

871

00:40:23,090 --> 00:40:17,670

faith is that the favorite sort of woo

872

00:40:24,350 --> 00:40:23,100

you like to hate net psychics well I'm

873

00:40:26,360 --> 00:40:24,360

not sure about haven't got a favorite

874

00:40:29,270 --> 00:40:26,370

whew that I hate homeopathy comes pretty

875

00:40:32,480 --> 00:40:29,280

close to a second awesome maybe even top

876

00:40:34,940 --> 00:40:32,490

you know chiropractic is another one all

877

00:40:36,440 --> 00:40:34,950

those ones that beat people up and as a

878

00:40:38,240 --> 00:40:36,450

pretense of actually helping them get

879

00:40:41,000 --> 00:40:38,250

better I think they're there they're

880

00:40:43,040 --> 00:40:41,010

just read full they should be eradicated

881

00:40:45,230 --> 00:40:43,050

somehow somehow is it be stomped stand

882

00:40:46,610 --> 00:40:45,240

down yeah and actually this is their

883

00:40:48,230 --> 00:40:46,620

first time person who along are the

884

00:40:49,940 --> 00:40:48,240

skeptics in the pub what sure what's the

885

00:40:52,550 --> 00:40:49,950

wu you like to write what's the one that

886

00:40:56,690 --> 00:40:52,560

really get your goat chiropractic and

887

00:40:58,750 --> 00:40:56,700

why is that yeah i studied it quite in

888

00:41:03,080 --> 00:40:58,760

depth during my undergraduate degree and

889

00:41:05,210 --> 00:41:03,090

made a lot of enemies is there any there

890

00:41:07,160 --> 00:41:05,220

is a genuine chiropractic that is

891

00:41:08,510 --> 00:41:07,170

actually science-based is there a side

892

00:41:10,280 --> 00:41:08,520

of it that is science based or way

893

00:41:13,160 --> 00:41:10,290

incorrect I wouldn't say science-based

894

00:41:20,090 --> 00:41:13,170

more that they've drifted away from the

895

00:41:22,220 --> 00:41:20,100

real crazy in there in that they don't

896

00:41:24,110 --> 00:41:22,230

quite go in for the whole everything is

897

00:41:28,250 --> 00:41:24,120

caused by imbalance and was fine but

898

00:41:30,680 --> 00:41:28,260

they're basically glorified physios and

899

00:41:32,180 --> 00:41:30,690

how did you find yourself at skeptics in

900

00:41:34,430 --> 00:41:32,190

the pub and listen to the skeptic zone

901

00:41:36,260 --> 00:41:34,440

well I listened to skeptics own back

902

00:41:38,400 --> 00:41:36,270

home after being recommended it at QED

903

00:41:40,799 --> 00:41:38,410

con a couple of years ago

904

00:41:44,400 --> 00:41:40,809

and they've had that was recommended by

905

00:41:45,900 --> 00:41:44,410

dr. Bradford okay cool um yeah he's

906

00:41:51,839 --> 00:41:45,910

quite a dreamy looking doctor isn't it

907

00:41:54,900 --> 00:41:51,849

he's a good luck and then yeah so now

908

00:41:56,819 --> 00:41:54,910

I've relocated to Sydney and skeptics in

909

00:41:59,069 --> 00:41:56,829

the pub was my thing back home so how

910

00:42:00,329 --> 00:41:59,079

did you work in the science field I'm a

911

00:42:03,270 --> 00:42:00,339

radiographer so I work in the medical

912

00:42:04,680 --> 00:42:03,280

field so okay i'm a nerd say that you

913

00:42:06,829 --> 00:42:04,690

spent a lot of time running behind that

914

00:42:09,089 --> 00:42:06,839

screen don't you yeah yeah it's my

915

00:42:10,500 --> 00:42:09,099

spiritual home is behind the ledge know

916

00:42:12,029 --> 00:42:10,510

is that the first thing you're taught as

917

00:42:13,589 --> 00:42:12,039

a rare up where elders just before you

918

00:42:15,390 --> 00:42:13,599

push the button go behind the screen

919

00:42:18,420 --> 00:42:15,400

it's how not to trip over your own feet

920

00:42:20,220 --> 00:42:18,430

while you're doing it yeah and you wear

921

00:42:23,220 --> 00:42:20,230

a little guy good thing on you yes a

922

00:42:25,079 --> 00:42:23,230

little dazed cancer yet okay that's cool

923

00:42:26,160 --> 00:42:25,089

and and you get really incensed when

924

00:42:27,960 --> 00:42:26,170

people think that there's actually

925

00:42:29,730 --> 00:42:27,970

radiation coming from the microwave oven

926

00:42:33,029 --> 00:42:29,740

and they go the microwave oven will kill

927

00:42:35,430 --> 00:42:33,039

me no it's not the same it's not iron

928

00:42:36,690 --> 00:42:35,440

izing it's it's to illness it's more the

929

00:42:38,279 --> 00:42:36,700

ones that come in worrying about the

930

00:42:39,599 --> 00:42:38,289

radiation from the x-ray smelling a

931

00:42:41,579 --> 00:42:39,609

cigarette smoke those are the ones that

932

00:42:42,870 --> 00:42:41,589

really bugged me the most yeah you have

933

00:42:45,839 --> 00:42:42,880

to have to hold back on giving the

934

00:42:47,339 --> 00:42:45,849

lecture yeah thank you you're at puffing

935

00:42:48,569 --> 00:42:47,349

out there and you're coming in here and

936

00:42:52,349 --> 00:42:48,579

you're worried about you know yeah

937

00:42:54,180 --> 00:42:52,359

exactly exactly I end up so what are you

938

00:42:54,990 --> 00:42:54,190

hoping to see tonight here well what do

939

00:42:56,279 --> 00:42:55,000

you think you're gonna find in as

940

00:42:57,630 --> 00:42:56,289

skeptics in the pub you been to a few

941

00:42:59,910 --> 00:42:57,640

other ones around the place okay well

942

00:43:01,049 --> 00:42:59,920

I've just literally just been told what

943

00:43:02,279 --> 00:43:01,059

subject is and I'm really really

944

00:43:03,720 --> 00:43:02,289

interested because neurology or

945

00:43:05,519 --> 00:43:03,730

something I'm quite interested in it

946

00:43:07,319 --> 00:43:05,529

something I find quite intriguing and

947

00:43:08,640 --> 00:43:07,329

incredibly complex why is that because

948

00:43:09,990 --> 00:43:08,650

it's very hard to defeat them all

949

00:43:11,910 --> 00:43:10,000

they're very interesting organism what

950

00:43:14,099 --> 00:43:11,920

is it about them if you can remove

951  
00:43:15,660 --> 00:43:14,109  
yourself from the humanism aspect of

952  
00:43:18,870 --> 00:43:15,670  
people die from them I find them very

953  
00:43:20,339 --> 00:43:18,880  
very interesting organisms but then

954  
00:43:22,980 --> 00:43:20,349  
there's also the aspect of what can we

955  
00:43:24,839 --> 00:43:22,990  
do to defeat these little busters that's

956  
00:43:26,460 --> 00:43:24,849  
pretty cool question we are asking

957  
00:43:28,019 --> 00:43:26,470  
everybody this is just our magnets

958  
00:43:29,490 --> 00:43:28,029  
Christmas is what would be a great

959  
00:43:33,299 --> 00:43:29,500  
Christmas present for a skeptic you

960  
00:43:35,099 --> 00:43:33,309  
reckon well peace oh that's good that's

961  
00:43:37,660 --> 00:43:35,109  
good and the sir Count anything funny

962  
00:43:40,420 --> 00:43:37,670  
about that can make jokers in you

963  
00:43:43,000 --> 00:43:40,430

well I hope you get what you want thank

964

00:43:45,039 --> 00:43:43,010

you very much enjoy the whole time okay

965

00:43:46,270 --> 00:43:45,049

Ross you've just heard that she says you

966

00:43:47,770 --> 00:43:46,280

want to world peace for Christmas so

967

00:43:48,819 --> 00:43:47,780

your stuff now whatever answer you give

968

00:43:51,370 --> 00:43:48,829

really what do you think would be a

969

00:43:52,780 --> 00:43:51,380

perfect gift for a skeptic at Christmas

970

00:43:54,819 --> 00:43:52,790

yeah you know I've given it some thought

971

00:43:56,500 --> 00:43:54,829

and I reckon if Sully Morgan

972

00:43:58,690 --> 00:43:56,510

accidentally left her microphone on

973

00:44:01,210 --> 00:43:58,700

backstage that would be absolutely gold

974

00:44:02,650 --> 00:44:01,220

in my opinion so what do you reckon we'd

975

00:44:04,569 --> 00:44:02,660

hear her talking to the people that her

976  
00:44:06,700 --> 00:44:04,579  
handlers and might be doing that all the

977  
00:44:08,410 --> 00:44:06,710  
stuff behind it's possible she might

978  
00:44:10,270 --> 00:44:08,420  
give away some interesting facts about

979  
00:44:11,520 --> 00:44:10,280  
her performances I think for legal

980  
00:44:13,780 --> 00:44:11,530  
reasons we'll have to leave it at that

981  
00:44:16,089 --> 00:44:13,790  
we might hear something as interesting

982  
00:44:19,650 --> 00:44:16,099  
as can you hear me Petey that one well

983  
00:44:22,839 --> 00:44:21,490  
Richard Saunders who you heard at the

984  
00:44:24,579 --> 00:44:22,849  
beginning to show the guys running this

985  
00:44:27,700 --> 00:44:24,589  
whole operation here this this whole

986  
00:44:30,970 --> 00:44:27,710  
this whole chicken outfit to tell me

987  
00:44:32,799 --> 00:44:30,980  
captain soap what would you like for

988  
00:44:34,480 --> 00:44:32,809

Christmas for the skeptics what is it

989

00:44:37,720 --> 00:44:34,490

what's a good Christmas gift for a

990

00:44:39,609 --> 00:44:37,730

skeptic I think every year that I get my

991

00:44:41,799 --> 00:44:39,619

Christmas gift when I think that each

992

00:44:45,400 --> 00:44:41,809

year that we are around medical science

993

00:44:47,170 --> 00:44:45,410

progresses more and more and it helps

994

00:44:50,049 --> 00:44:47,180

people like my mother and my sisters

995

00:44:51,430 --> 00:44:50,059

that's pretty damn good and what area

996

00:44:52,930 --> 00:44:51,440

would you like to see progress a bit

997

00:44:54,309 --> 00:44:52,940

more I mean obviously you've been

998

00:44:56,200 --> 00:44:54,319

involved seeing a bit of palliative

999

00:44:57,549 --> 00:44:56,210

beeps a bit of palliative care lately

1000

00:44:59,109 --> 00:44:57,559

and of course there's laws that are

1001  
00:45:01,329 --> 00:44:59,119  
around that in Australia and they would

1002  
00:45:03,520 --> 00:45:01,339  
you like to see any legal things change

1003  
00:45:05,260 --> 00:45:03,530  
in palliative care I mean I know it's

1004  
00:45:06,910 --> 00:45:05,270  
really tough question I have to think

1005  
00:45:10,660 --> 00:45:06,920  
about that for a lot longer but I'm

1006  
00:45:13,210 --> 00:45:10,670  
pleased that and this is public

1007  
00:45:16,930 --> 00:45:13,220  
knowledge now so my sister is is having

1008  
00:45:18,330 --> 00:45:16,940  
a cancer issue at the moment but if this

1009  
00:45:22,150 --> 00:45:18,340  
happened to a

1010  
00:45:25,500 --> 00:45:22,160  
30 20 30 years ago her her outlook would

1011  
00:45:28,810 --> 00:45:25,510  
be grim now it's the outlook is good so

1012  
00:45:30,640 --> 00:45:28,820  
you know what on wood science and

1013  
00:45:33,310 --> 00:45:30,650

medicine because you had a scare during

1014

00:45:35,620 --> 00:45:33,320

the year but you got through I did I had

1015

00:45:38,050 --> 00:45:35,630

a cancer scare of myself but again

1016

00:45:41,050 --> 00:45:38,060

medical science to the rescue and the

1017

00:45:42,700 --> 00:45:41,060

latest had me I drove you home and and

1018

00:45:44,680 --> 00:45:42,710

the thing is the most dangerous thing

1019

00:45:47,020 --> 00:45:44,690

about the operation is getting to and

1020

00:45:49,810 --> 00:45:47,030

from the hospital and you let me drive

1021

00:45:54,130 --> 00:45:49,820

you you idiot I thank you for driving me

1022

00:45:55,750 --> 00:45:54,140

home a not yet but you know look I was

1023

00:45:57,640 --> 00:45:55,760

drunk the whole time frankly I don't

1024

00:45:59,410 --> 00:45:57,650

remember it so I think if I don't

1025

00:46:01,420 --> 00:45:59,420

remember it never happened good next

1026  
00:46:02,800 --> 00:46:01,430  
time I need help me out I'll be sure to

1027  
00:46:04,450 --> 00:46:02,810  
give you a call you should have been

1028  
00:46:07,840 --> 00:46:04,460  
married when I had the martini glass in

1029  
00:46:09,220 --> 00:46:07,850  
the waiting room look as I said we're it

1030  
00:46:10,810 --> 00:46:09,230  
skeptics at the pub but it's not very

1031  
00:46:12,130 --> 00:46:10,820  
often we get someone coming along and

1032  
00:46:13,660 --> 00:46:12,140  
not only is perhaps the first time

1033  
00:46:15,430 --> 00:46:13,670  
skeptic in the pub girl but someone

1034  
00:46:17,380 --> 00:46:15,440  
who's only been listening to the skeptic

1035  
00:46:19,120 --> 00:46:17,390  
zone for a few episodes just a couple

1036  
00:46:20,740 --> 00:46:19,130  
episodes what's your name sir hey Jamie

1037  
00:46:22,000 --> 00:46:20,750  
hey good to have you here Jamie and what

1038  
00:46:24,400 --> 00:46:22,010

made you decide to come along to

1039

00:46:25,780 --> 00:46:24,410

skeptics in the pub tonight I'm really I

1040

00:46:27,190 --> 00:46:25,790

want to get more involved with this

1041

00:46:29,590 --> 00:46:27,200

kept a community here in Sydney I

1042

00:46:30,880 --> 00:46:29,600

recently moved to Sydney I've been

1043

00:46:34,120 --> 00:46:30,890

listening to the skippy scarred the

1044

00:46:36,010 --> 00:46:34,130

universe for quite a while now and then

1045

00:46:37,260 --> 00:46:36,020

I recently started pushing through to

1046

00:46:40,060 --> 00:46:37,270

other things are getting more involved

1047

00:46:42,310 --> 00:46:40,070

online and that kind of thing next year

1048

00:46:45,700 --> 00:46:42,320

I want to get more involved because I'm

1049

00:46:47,050 --> 00:46:45,710

a design student ok and next year i'm

1050

00:46:49,090 --> 00:46:47,060

doing my honours year i want to get more

1051  
00:46:52,330 --> 00:46:49,100  
involved with science education in the

1052  
00:46:54,970 --> 00:46:52,340  
public and we have to do quite a major

1053  
00:46:57,460 --> 00:46:54,980  
project for that yeah and what about the

1054  
00:46:59,350 --> 00:46:57,470  
you are a skipping stone listener after

1055  
00:47:00,850 --> 00:46:59,360  
the skipper's guard the universe so I

1056  
00:47:02,500 --> 00:47:00,860  
mean obviously we don't have the budget

1057  
00:47:04,030 --> 00:47:02,510  
those guys heaven then and they've

1058  
00:47:05,740 --> 00:47:04,040  
worked together a lot longer what do you

1059  
00:47:07,510 --> 00:47:05,750  
make of the show so far and you can be

1060  
00:47:09,100 --> 00:47:07,520  
honest here I really liked the format

1061  
00:47:11,080 --> 00:47:09,110  
actually it took me one of the episodes

1062  
00:47:13,840 --> 00:47:11,090  
to kind of get used to it I was used to

1063  
00:47:15,490 --> 00:47:13,850

little more very kind of um very

1064

00:47:17,620 --> 00:47:15,500

formatted kind of show but I really like

1065

00:47:19,930 --> 00:47:17,630

the way how

1066

00:47:21,999 --> 00:47:19,940

Richard brings all the different kind of

1067

00:47:23,589 --> 00:47:22,009

people into the show we're from

1068

00:47:26,980 --> 00:47:23,599

different kind of including myself from

1069

00:47:28,240 --> 00:47:26,990

time to time from time to time yes yes I

1070

00:47:30,849 --> 00:47:28,250

walked in here today and the first verse

1071

00:47:32,079 --> 00:47:30,859

that recognizes Richards oh yeah he's

1072

00:47:35,140 --> 00:47:32,089

out the front with the head out in the

1073

00:47:37,150 --> 00:47:35,150

guitar yeah these Frank Sinatra ballads

1074

00:47:39,940 --> 00:47:37,160

well done there a good time and I hope

1075

00:47:41,620 --> 00:47:39,950

you enjoy yourself thanks man oh ok hang

1076  
00:47:42,970 --> 00:47:41,630  
on hang on the doctor alert I can sense

1077  
00:47:45,160 --> 00:47:42,980  
with my psychic powers that there's

1078  
00:47:46,779 --> 00:47:45,170  
someone here who spent a lot of time at

1079  
00:47:50,039 --> 00:47:46,789  
a tertiary institution to get a degree

1080  
00:47:53,620 --> 00:47:50,049  
who've we got at dr. Brad Makai here

1081  
00:47:55,299 --> 00:47:53,630  
yeah because he's from Australia's most

1082  
00:47:56,319 --> 00:47:55,309  
embarrassing medical practices or

1083  
00:47:58,960 --> 00:47:56,329  
something I that wasn't something like

1084  
00:48:00,910 --> 00:47:58,970  
that yeah great show i love the hidden

1085  
00:48:02,529 --> 00:48:00,920  
camera work um tell me what do you think

1086  
00:48:04,269 --> 00:48:02,539  
would be a great present to get a

1087  
00:48:05,859 --> 00:48:04,279  
skeptic for Christmas I think the

1088  
00:48:07,720 --> 00:48:05,869

perfect gift would be something that you

1089

00:48:12,609 --> 00:48:07,730

can see into the future something like a

1090

00:48:15,400 --> 00:48:12,619

crystal ball television that's an oddly

1091

00:48:17,339 --> 00:48:15,410

shaped crystal balls those plasma sets

1092

00:48:19,240 --> 00:48:17,349

are a little bit more like paper yeah

1093

00:48:20,559 --> 00:48:19,250

actually personally what are you hinting

1094

00:48:22,059 --> 00:48:20,569

for this Christmas what are you been

1095

00:48:24,960 --> 00:48:22,069

hinting for people to get you have you

1096

00:48:28,059 --> 00:48:24,970

been putting in San I've wanted a

1097

00:48:29,380 --> 00:48:28,069

three-legged rabbit yeah so yeah so

1098

00:48:30,759 --> 00:48:29,390

somebody else can have the lucky

1099

00:48:33,160 --> 00:48:30,769

rabbit's foot and I'll just take the

1100

00:48:36,039 --> 00:48:33,170

rest of it don't even I can't even get a

1101  
00:48:38,919 --> 00:48:36,049  
rabbit in Queensland we're not allowed

1102  
00:48:40,660 --> 00:48:38,929  
yeah you got the skeptic proof fence up

1103  
00:48:42,549 --> 00:48:40,670  
there haven't you apparently yeah it's

1104  
00:48:44,620 --> 00:48:42,559  
so depressing because Bonnie's are the

1105  
00:48:48,489 --> 00:48:44,630  
cutest right I mean that's that's a

1106  
00:48:50,650 --> 00:48:48,499  
genuinely known fact peer reviewed yeah

1107  
00:48:52,239 --> 00:48:50,660  
and also you cause a bit of a bit of a

1108  
00:48:54,279 --> 00:48:52,249  
few earlier in the week when you were on

1109  
00:48:56,199 --> 00:48:54,289  
ABC radio and Australia you you're

1110  
00:48:59,079 --> 00:48:56,209  
bad-mouthing the fact that memory has

1111  
00:49:01,479 --> 00:48:59,089  
got water award has got memory I was

1112  
00:49:04,569 --> 00:49:01,489  
just explaining the ludicrousness of it

1113  
00:49:06,699 --> 00:49:04,579

so there was a fun time talking about

1114

00:49:10,209 --> 00:49:06,709

alternative medicine especially talking

1115

00:49:13,089 --> 00:49:10,219

about wet cupping versus dry coming um

1116

00:49:15,729 --> 00:49:13,099

and so did what I was like it when a

1117

00:49:17,319 --> 00:49:15,739

skeptic comes up against a normal a

1118

00:49:18,969 --> 00:49:17,329

regular crowd that has an encounter the

1119

00:49:20,859 --> 00:49:18,979

sceptical thought before and they bring

1120

00:49:22,419 --> 00:49:20,869

in they go oh I'm Tom taking some

1121

00:49:23,979 --> 00:49:22,429

homeopathy what do you think that will

1122

00:49:25,900 --> 00:49:23,989

do how do you go when you have someone

1123

00:49:27,189 --> 00:49:25,910

who hasn't been exposed to any of the

1124

00:49:28,870 --> 00:49:27,199

critical thinking about that how do you

1125

00:49:30,759 --> 00:49:28,880

approach it I found it quite interesting

1126  
00:49:31,660 --> 00:49:30,769  
on the radio we're having people calling

1127  
00:49:33,759 --> 00:49:31,670  
in about all sorts of different

1128  
00:49:35,739 --> 00:49:33,769  
alternative therapies and yeah like I

1129  
00:49:37,419 --> 00:49:35,749  
think my resounding thought at the end

1130  
00:49:40,239 --> 00:49:37,429  
of it was oh my god people actually

1131  
00:49:41,769 --> 00:49:40,249  
believe this and they're often people

1132  
00:49:43,059 --> 00:49:41,779  
are just very inquisitive like

1133  
00:49:45,569 --> 00:49:43,069  
especially they'll ring up about ear

1134  
00:49:48,130 --> 00:49:45,579  
candling to ask if that really worked

1135  
00:49:50,620 --> 00:49:48,140  
and when I described as a magic trick

1136  
00:49:52,449 --> 00:49:50,630  
they everybody was sort of impressed

1137  
00:49:54,489 --> 00:49:52,459  
with that so yeah I think there's a lot

1138  
00:49:56,229 --> 00:49:54,499

of inquisitiveness I think a lot of

1139

00:49:58,419 --> 00:49:56,239

people who do believe in homeopathy

1140

00:49:59,859 --> 00:49:58,429

don't really know what it's about they

1141

00:50:01,179 --> 00:49:59,869

think that there's an active ingredient

1142

00:50:03,489 --> 00:50:01,189

there they think that there's something

1143

00:50:05,169 --> 00:50:03,499

that it's doing for them and when you

1144

00:50:07,329 --> 00:50:05,179

actually explained about water having

1145

00:50:09,309 --> 00:50:07,339

memory and how its diluted and how

1146

00:50:11,890 --> 00:50:09,319

that's apparently meant to make it have

1147

00:50:13,269 --> 00:50:11,900

more power yeah people often scratch

1148

00:50:15,400 --> 00:50:13,279

their heads and go I didn't really know

1149

00:50:17,380 --> 00:50:15,410

what that was about at all yeah and it's

1150

00:50:19,150 --> 00:50:17,390

good to just take it easy with them

1151  
00:50:20,650 --> 00:50:19,160  
because if you take to a confrontational

1152  
00:50:22,120 --> 00:50:20,660  
approach or you may be insult their

1153  
00:50:24,249 --> 00:50:22,130  
intelligence that's not the way to go is

1154  
00:50:26,499 --> 00:50:24,259  
it I certainly explained it in the most

1155  
00:50:30,729 --> 00:50:26,509  
confusing way possible I'll good to make

1156  
00:50:33,169 --> 00:50:30,739  
them realize how bizarre it was

1157  
00:50:34,999 --> 00:50:33,179  
yeah we got Jessica singing hi Jessica

1158  
00:50:36,949 --> 00:50:35,009  
how are you I'm extremely well but I'm

1159  
00:50:39,829 --> 00:50:36,959  
very hungry she's one of these shadowy

1160  
00:50:44,509 --> 00:50:39,839  
puppet master elite of the skeptics

1161  
00:50:47,059 --> 00:50:44,519  
aren't you oh yeah yeah I I'm happy to

1162  
00:50:49,249 --> 00:50:47,069  
claim that claim that particular honor

1163  
00:50:50,959 --> 00:50:49,259

yes absolutely okay as one of these

1164

00:50:52,339 --> 00:50:50,969

skeptical Illuminati then what do you

1165

00:50:54,949 --> 00:50:52,349

think would make a great Christmas

1166

00:50:57,439 --> 00:50:54,959

present for skeptic oh well a three-year

1167

00:50:59,809 --> 00:50:57,449

gift subscription to our fabulous

1168

00:51:04,669 --> 00:50:59,819

magazine the skeptic which can be got in

1169

00:51:07,549 --> 00:51:04,679

hard copy and digital version and or

1170

00:51:09,049 --> 00:51:07,559

both no and thinking of skeptics what if

1171

00:51:10,699 --> 00:51:09,059

you did have a Christmas tree won't be a

1172

00:51:12,529 --> 00:51:10,709

skeptical decoration for the Christmas

1173

00:51:15,109 --> 00:51:12,539

tree I always go for the Shatner's

1174

00:51:17,359 --> 00:51:15,119

something to do with shatner picture

1175

00:51:18,949 --> 00:51:17,369

William Shatner with a Santa's hat on

1176  
00:51:21,739 --> 00:51:18,959  
something but what do you reckon Star

1177  
00:51:23,769 --> 00:51:21,749  
Wars doctor doctor who surely they've

1178  
00:51:26,900 --> 00:51:23,779  
got doctor who christmas ornaments

1179  
00:51:29,120 --> 00:51:26,910  
guitar dispute really yeah totally

1180  
00:51:30,679 --> 00:51:29,130  
totally yeah good that okay how do you

1181  
00:51:33,319 --> 00:51:30,689  
normally spend Christmas Day juice but

1182  
00:51:34,819 --> 00:51:33,329  
do you spend it having a lot of skeptics

1183  
00:51:36,410 --> 00:51:34,829  
have a lot of arguments some of the

1184  
00:51:38,689 --> 00:51:36,420  
family on the skit on Christmas Day

1185  
00:51:40,999 --> 00:51:38,699  
don't they oh no we just drink heavily

1186  
00:51:43,640 --> 00:51:41,009  
oh okay we get together with the family

1187  
00:51:47,749 --> 00:51:43,650  
and drink heavily and on that note I

1188  
00:51:50,059 --> 00:51:47,759

think every skeptic you know it Tim

1189

00:51:54,499 --> 00:51:50,069

mentions drinking white wine in the Sun

1190

00:51:57,380 --> 00:51:54,509

is reduces the most hardened skeptic and

1191

00:51:59,719 --> 00:51:57,390

or atheist to bull a blubbering mess and

1192

00:52:01,069 --> 00:51:59,729

if you can't I just love that song if

1193

00:52:03,109 --> 00:52:01,079

you can't find that my Christmas

1194

00:52:06,620 --> 00:52:03,119

favorite is Clarence Carter back door

1195

00:52:09,949 --> 00:52:06,630

Santa Tom Jones also did a version of it

1196

00:52:12,349 --> 00:52:09,959

back door Santa it's a great track it's

1197

00:52:25,309 --> 00:52:12,359

true oh look she's gonna be laughing til

1198

00:52:36,289 --> 00:52:33,859

I want to help support the skeptic zone

1199

00:52:39,170 --> 00:52:36,299

and look pretty damn stylish while

1200

00:52:43,309 --> 00:52:39,180

you're about it visit mr. Katz origami

1201  
00:52:46,130 --> 00:52:43,319  
jewelry WWE pegs on TV and click the

1202  
00:52:49,729 --> 00:52:46,140  
link or simply Google mr. Katz origami

1203  
00:52:53,439 --> 00:52:49,739  
jewelry also on Facebook pendants

1204  
00:53:10,730 --> 00:52:53,449  
earrings and cufflinks support mr. cat

1205  
00:53:15,210 --> 00:53:13,050  
thank you for listening to the skeptic

1206  
00:53:18,690 --> 00:53:15,220  
zone and I must say a big thank you to

1207  
00:53:20,329 --> 00:53:18,700  
the skeptic zones voiceover man Jim

1208  
00:53:23,490 --> 00:53:20,339  
wilshire he's the man who says this

1209  
00:53:26,069 --> 00:53:23,500  
welcome to the skeptic zone the podcast

1210  
00:53:29,160 --> 00:53:26,079  
from Australia for science and reason

1211  
00:53:32,010 --> 00:53:29,170  
Jim came up from Aubrey he lives down

1212  
00:53:33,750 --> 00:53:32,020  
there Aubrey he drove up to visit me for

1213  
00:53:36,140 --> 00:53:33,760

my birthday which was so nice of him

1214

00:53:39,089 --> 00:53:36,150

really great to see him and he gave me

1215

00:53:43,349 --> 00:53:39,099

he he gave me an interesting present

1216

00:53:56,280 --> 00:53:43,359

folks he gave me ah well i'll let you

1217

00:53:57,900 --> 00:53:56,290

listen a sonic screwdriver oh yes not

1218

00:54:01,230 --> 00:53:57,910

just a sonic screwdriver this is

1219

00:54:03,690 --> 00:54:01,240

beautifully made it's a weighty it's

1220

00:54:08,309 --> 00:54:03,700

made out of real metal and it's also a

1221

00:54:11,339 --> 00:54:08,319

TV remote control so I can't wait to

1222

00:54:13,140 --> 00:54:11,349

visit my uh my nephews and nieces I

1223

00:54:15,150 --> 00:54:13,150

won't tell them anything I'll just sort

1224

00:54:22,010 --> 00:54:15,160

of be sitting there and I'll whip out my

1225

00:54:30,030 --> 00:54:24,839

thank you Jim all right you can turn off

1226

00:54:31,620 --> 00:54:30,040

now God there we are powdered down thank

1227

00:54:33,359 --> 00:54:31,630

you Jim will sure what a wonderful

1228

00:54:35,700 --> 00:54:33,369

present what a fun present for my

1229

00:54:37,680 --> 00:54:35,710

birthday thank you so much coming up on

1230

00:54:39,059 --> 00:54:37,690

next week's show is mentioned before an

1231

00:54:40,559 --> 00:54:39,069

interview with Ross pouch from the

1232

00:54:42,809 --> 00:54:40,569

Brisbane skeptics society and what a

1233

00:54:45,059 --> 00:54:42,819

great job they do relatively new group

1234

00:54:48,420 --> 00:54:45,069

they hosted the Australian skeptics

1235

00:54:50,970 --> 00:54:48,430

convention or a month or two back and

1236

00:54:52,530 --> 00:54:50,980

there are more interviews still coming

1237

00:54:54,870 --> 00:54:52,540

from that convention because may not

1238

00:54:57,089 --> 00:54:54,880

being Maynard running around with this

1239

00:55:00,780 --> 00:54:57,099

microphone got lots of great interviews

1240

00:55:03,240 --> 00:55:00,790

and also next week I hope to have on the

1241

00:55:05,910 --> 00:55:03,250

show representatives of the new podcast

1242

00:55:09,510 --> 00:55:05,920

you heard about in the skeptic zone the

1243

00:55:12,270 --> 00:55:09,520

the new European skeptics podcast so

1244

00:55:14,309 --> 00:55:12,280

that might be very interesting what for

1245

00:55:15,930 --> 00:55:14,319

this week this is Richard soon as I

1246

00:55:20,609 --> 00:55:15,940

wonder if I can do this I want if I get

1247

00:55:22,890 --> 00:55:20,619

a TARDIS cool no TARDIS oh well better

1248

00:55:29,390 --> 00:55:22,900

luck next time signing off from Sydney

1249

00:55:35,579 --> 00:55:31,829

you've been listening to the skeptics

1250

00:55:38,520 --> 00:55:35,589

own podcast visit our website at wwc a

1251  
00:55:41,940 --> 00:55:38,530  
petting zoo TV for contacts and archive

1252  
00:55:44,640 --> 00:55:41,950  
of all episodes since 2008 and our

1253  
00:55:46,550 --> 00:55:44,650  
online store please support the skeptic

1254  
00:55:49,740 --> 00:55:46,560  
zone by following us on twitter at

1255  
00:55:53,370 --> 00:55:49,750  
skeptic zone liking us on facebook and

1256  
00:55:55,530 --> 00:55:53,380  
leaving a review on iTunes you can also

1257  
00:55:58,700 --> 00:55:55,540  
show your support by subscribing via

1258  
00:56:01,500 --> 00:55:58,710  
paypal for as little as 99 cents a week

1259  
00:56:03,089 --> 00:56:01,510  
the skeptic zone is an independent

1260  
00:56:05,550 --> 00:56:03,099  
production the views and opinions

1261  
00:56:07,620 --> 00:56:05,560  
expressed on the skeptic zone and not