

1
00:00:05,969 --> 00:00:13,699
welcome to the skeptic zone the podcast

2
00:00:09,119 --> 00:00:13,699
from Australia for science and reason

3
00:00:22,670 --> 00:00:29,730
hello and welcome to the skeptic zone

4
00:00:25,349 --> 00:00:32,460
episode number 384 the 31st of January

5
00:00:29,730 --> 00:00:34,530
2016 Richard Saunders here with you from

6
00:00:32,460 --> 00:00:36,509
Sydney Australia coming up on this

7
00:00:34,530 --> 00:00:39,600
week's show we're gonna kick off with

8
00:00:36,509 --> 00:00:42,479
joe alabaster some evidence please with

9
00:00:39,600 --> 00:00:45,899
Joe Joe's going to be talking to us

10
00:00:42,479 --> 00:00:50,459
about the importance of being on the

11
00:00:45,899 --> 00:00:51,988
bone marrow register now I must admit

12
00:00:50,460 --> 00:00:55,109
this is something that hasn't really

13
00:00:51,988 --> 00:00:56,728
crossed my mind but it is now and

14
00:00:55,109 --> 00:00:59,478
certainly crossing my mind now and it

15
00:00:56,728 --> 00:01:01,948
may cross yours after listening to

16
00:00:59,478 --> 00:01:04,890
evidence please with Joe alabaster

17
00:01:01,948 --> 00:01:07,140
following that I catch up with a dear

18
00:01:04,890 --> 00:01:09,930
old friend of mine somebody haven't seen

19
00:01:07,140 --> 00:01:13,259
for a while Professor Richard Wiseman

20
00:01:09,930 --> 00:01:16,500
all the way from the UK now he's the man

21
00:01:13,259 --> 00:01:19,590
who does the incredibly funny and

22
00:01:16,500 --> 00:01:20,938
interesting quirkology videos in fact i

23
00:01:19,590 --> 00:01:23,400
must say that during a mystery

24
00:01:20,938 --> 00:01:25,978
investigators live school show which i

25
00:01:23,400 --> 00:01:28,530
do from time to time with that dr. H II

26
00:01:25,978 --> 00:01:31,618
and Maynard and some other people that

27
00:01:28,530 --> 00:01:36,030
we use a video from Professor Wiseman to

28
00:01:31,618 --> 00:01:37,289
help illustrate a point anyway I catch

29

00:01:36,030 --> 00:01:42,329
up with rigid he's going to be talking

30
00:01:37,289 --> 00:01:46,140
about psychic dogs Maria's magical

31
00:01:42,328 --> 00:01:51,019
videos his uh his books he lights a lot

32
00:01:46,140 --> 00:01:53,009
of books and the study of dreams and

33
00:01:51,019 --> 00:01:55,228
interesting interview coming up a bit

34
00:01:53,009 --> 00:01:56,578
later on in the show then it's a week in

35
00:01:55,228 --> 00:02:01,108
signs from our friends at the Royal

36
00:01:56,578 --> 00:02:03,538
Institution of Australia w WR I a USGA

37
00:02:01,108 --> 00:02:06,149
you and if you're going to visit

38
00:02:03,539 --> 00:02:09,449
Adelaide you should visit the Royal

39
00:02:06,149 --> 00:02:12,568
Institution I think you'd enjoy it then

40
00:02:09,449 --> 00:02:14,669
to round off the show Maynard's spooky

41
00:02:12,568 --> 00:02:17,659
action now we've been talking lately

42
00:02:14,669 --> 00:02:20,099
about discussing the chiropractic board

43
00:02:17,659 --> 00:02:23,930

well may not finally does it he's going

44

00:02:20,099 --> 00:02:26,639

to be interviewing ken harvey what a

45

00:02:23,930 --> 00:02:29,670

legend he is in australian skeptical

46

00:02:26,639 --> 00:02:33,779

circles he gets things done he's the the

47

00:02:29,669 --> 00:02:34,649

thorn in the side of many a quack I can

48

00:02:33,780 --> 00:02:36,539

tell you

49

00:02:34,650 --> 00:02:39,060

he writes to government he prepares

50

00:02:36,539 --> 00:02:40,739

reports a man who doesn't sit back in

51

00:02:39,060 --> 00:02:42,420

his armchair I can promise you that but

52

00:02:40,739 --> 00:02:46,230

just before we get stuck into the

53

00:02:42,419 --> 00:02:48,780

skeptic zone some news from Victoria

54

00:02:46,229 --> 00:02:51,598

from our friends in Victoria well it's a

55

00:02:48,780 --> 00:02:53,549

reminder for an upcoming event for the

56

00:02:51,598 --> 00:02:56,219

fifth year in a row the australia's

57

00:02:53,549 --> 00:02:58,620

favourite low-key grassroots skeptical

58
00:02:56,219 --> 00:03:01,680
event will be run at Ellie's inlet

59
00:02:58,620 --> 00:03:04,560
community hall on saturday the 27th of

60
00:03:01,680 --> 00:03:07,260
februari this is the Surf Coast skeptic

61
00:03:04,560 --> 00:03:09,628
camp now it's a one-day event it's free

62
00:03:07,259 --> 00:03:12,318
and you'll be able to hear from local

63
00:03:09,628 --> 00:03:14,878
and visiting skeptics scientists and

64
00:03:12,318 --> 00:03:17,878
curious onlookers alike as they discuss

65
00:03:14,878 --> 00:03:21,239
topics from cults to alt med to local

66
00:03:17,878 --> 00:03:24,060
mysteries and more the science on top

67
00:03:21,239 --> 00:03:26,280
podcast will again be doing a live

68
00:03:24,060 --> 00:03:29,489
recording sounds like a lot of fun lunch

69
00:03:26,280 --> 00:03:32,009
will be provided but they need to know

70
00:03:29,489 --> 00:03:36,450
numbers so the thing to do is to visit

71
00:03:32,009 --> 00:03:39,539
the eventbrite website and find the link

72
00:03:36,449 --> 00:03:42,060
or do a search for surf coast summer

73
00:03:39,539 --> 00:03:44,340
skeptical camp I'll put a link in the show

74
00:03:42,060 --> 00:03:47,699
notes so if you're in Victoria that's

75
00:03:44,340 --> 00:03:49,979
the place to head on Saturday the 27th

76
00:03:47,699 --> 00:03:52,799
of very now just before I run downstairs

77
00:03:49,979 --> 00:03:54,899
and find myself something to eat please

78
00:03:52,799 --> 00:03:57,810
stay tuned right at the end of the show

79
00:03:54,900 --> 00:04:00,150
for a little announcement from me about

80
00:03:57,810 --> 00:04:01,680
one of our skeptics own family but now

81
00:04:00,150 --> 00:04:04,280
it is time for me to run downstairs and

82
00:04:01,680 --> 00:04:07,949
I think I will look for a bagel with

83
00:04:04,280 --> 00:04:09,840
some cream cheese that sounds pretty

84
00:04:07,949 --> 00:04:13,609
damn good well I'm doing that I hope you

85
00:04:09,840 --> 00:04:13,609
enjoy the skeptic zone

86

00:04:27,779 --> 00:04:36,149
what we want is some more evidence

87
00:04:30,399 --> 00:04:36,149
please is Joe alabaster

88
00:04:37,468 --> 00:04:41,939
hello this is juror alabaster

89
00:04:42,560 --> 00:04:50,610
f cancer cancer socks and F quack cancer

90
00:04:47,759 --> 00:04:52,199
treatments true medical science is

91
00:04:50,610 --> 00:04:54,210
working hard to develop the best

92
00:04:52,199 --> 00:04:56,610
treatments for various cancers it

93
00:04:54,209 --> 00:04:58,859
doesn't have all the answers but it does

94
00:04:56,610 --> 00:05:00,600
have the best answers and one of those

95
00:04:58,860 --> 00:05:03,150
answers for some people with blood

96
00:05:00,600 --> 00:05:06,169
cancers is to receive a bone marrow or

97
00:05:03,149 --> 00:05:08,579
peripheral blood stem cell transplant

98
00:05:06,168 --> 00:05:11,189
the Australian bone marrow donor

99
00:05:08,579 --> 00:05:13,349
registry keeps a database of Australians

100
00:05:11,189 --> 00:05:15,540

who have registered to be donors along

101

00:05:13,350 --> 00:05:16,980

with details of their tissue type in the

102

00:05:15,540 --> 00:05:20,010

hope that they can find matches for

103

00:05:16,980 --> 00:05:22,379

people in need recipients include people

104

00:05:20,009 --> 00:05:24,149

who have lymphoma and leukemia as well

105

00:05:22,379 --> 00:05:26,610

as some genetic and autoimmune

106

00:05:24,149 --> 00:05:29,699

conditions such as forms of anemia and

107

00:05:26,610 --> 00:05:32,430

platelet disorders if you meet the

108

00:05:29,699 --> 00:05:34,500

criteria registering to become a bone

109

00:05:32,430 --> 00:05:36,930

marrow donor in Australia is as simple

110

00:05:34,500 --> 00:05:38,910

as donating blood the Australian Red

111

00:05:36,930 --> 00:05:40,709

Cross blood donation service are the

112

00:05:38,910 --> 00:05:43,800

agency who collect blood for tissue

113

00:05:40,709 --> 00:05:45,719

typing for the registry when booking an

114

00:05:43,800 --> 00:05:47,310

appointment with the Red Cross simply

115
00:05:45,720 --> 00:05:49,770
state that you'd like to join the bone

116
00:05:47,310 --> 00:05:51,540
marrow donation registry also and they

117
00:05:49,769 --> 00:05:54,930
will arrange the paperwork and blood

118
00:05:51,540 --> 00:05:58,110
collection the registry accepts people

119
00:05:54,930 --> 00:06:00,240
between 18 and 45 years old and there

120
00:05:58,110 --> 00:06:01,979
are some exclusions as to who can donate

121
00:06:00,240 --> 00:06:04,019
bone marrow which listed on the

122
00:06:01,978 --> 00:06:06,029
australian bone marrow donor registries

123
00:06:04,019 --> 00:06:08,490
website these are different to blood

124
00:06:06,029 --> 00:06:10,829
donation so some people who are unable

125
00:06:08,490 --> 00:06:13,439
to donate blood are still able to donate

126
00:06:10,829 --> 00:06:15,810
bone marrow and some exclusion criteria

127
00:06:13,439 --> 00:06:17,819
a temporary so if you're excluded now

128
00:06:15,810 --> 00:06:20,759
you may still be able to sign up in the

129

00:06:17,819 --> 00:06:23,610

future tissue typing is quite

130

00:06:20,759 --> 00:06:27,389

interesting it's also known as h la

131

00:06:23,610 --> 00:06:29,759

typing HLA being human leukocyte antigen

132

00:06:27,389 --> 00:06:32,099

HLA markers are one of the ways our

133

00:06:29,759 --> 00:06:33,990

immune system determines whether cells

134

00:06:32,100 --> 00:06:36,479

are foreign or our own so that the

135

00:06:33,990 --> 00:06:38,699

closer match our donors HLA markers are

136

00:06:36,478 --> 00:06:40,620

to the recipients the less likely it is

137

00:06:38,699 --> 00:06:42,719

that the recipients immune system will

138

00:06:40,620 --> 00:06:45,899

attack the donated cells and reject the

139

00:06:42,720 --> 00:06:47,940

transplant one in three people needing a

140

00:06:45,899 --> 00:06:49,709

bone marrow transplant have a fully

141

00:06:47,939 --> 00:06:52,348

matched family member who's able to

142

00:06:49,709 --> 00:06:55,019

donate to them for those who don't wait

143

00:06:52,348 --> 00:06:58,439
a family and unrelated donor searches by

144
00:06:55,019 --> 00:07:00,299
bone marrow registries are needed should

145
00:06:58,439 --> 00:07:02,219
you be a match for somebody which

146
00:07:00,300 --> 00:07:04,889
involves further tissue typing via a

147
00:07:02,220 --> 00:07:07,470
blood sample to confirm the match there

148
00:07:04,889 --> 00:07:09,240
are two ways to donate the best method

149
00:07:07,470 --> 00:07:12,000
is determined by the treating doctors

150
00:07:09,240 --> 00:07:14,430
involved you may be having visions of

151
00:07:12,000 --> 00:07:16,500
huge needles at this point they're used

152
00:07:14,430 --> 00:07:18,658
for collecting bone marrow directly from

153
00:07:16,500 --> 00:07:21,478
a donor's hip while the donors under a

154
00:07:18,658 --> 00:07:23,459
general anesthetic post-operative pain

155
00:07:21,478 --> 00:07:26,699
is generally manage with paracetamol and

156
00:07:23,459 --> 00:07:28,739
recoveries often swift the removed bone

157
00:07:26,699 --> 00:07:32,430

marrow is replenished by the body within

158

00:07:28,740 --> 00:07:34,470

around four weeks the alternative method

159

00:07:32,430 --> 00:07:37,500

of donation which I wasn't aware of

160

00:07:34,470 --> 00:07:40,020

until recently it's to donate peripheral

161

00:07:37,500 --> 00:07:41,970

blood stem cells this is done by

162

00:07:40,019 --> 00:07:44,339

injecting the donor over several days

163

00:07:41,970 --> 00:07:47,370

with a hormone like treatment known as

164

00:07:44,339 --> 00:07:49,348

g-csf which stimulates increased

165

00:07:47,370 --> 00:07:51,329

production of stem cells within bone

166

00:07:49,348 --> 00:07:54,060

marrow these cells are then released

167

00:07:51,329 --> 00:07:56,250

into the blood stream donation itself

168

00:07:54,060 --> 00:07:58,829

involves spending three to four hours at

169

00:07:56,250 --> 00:08:01,079

an affair Asus center in which blood is

170

00:07:58,829 --> 00:08:03,060

taken from the donor sent through a cell

171

00:08:01,079 --> 00:08:05,399

separator machine which collects stem

172
00:08:03,060 --> 00:08:08,218
cells needed for transplant and then

173
00:08:05,399 --> 00:08:10,049
returned to the donor the donated

174
00:08:08,218 --> 00:08:12,509
product is then processed and

175
00:08:10,050 --> 00:08:14,069
transplanted to the recipient healthy

176
00:08:12,509 --> 00:08:16,229
blood stem cells are given to the

177
00:08:14,069 --> 00:08:18,120
patient intravenously and they find

178
00:08:16,228 --> 00:08:21,028
their way into bones to become healthy

179
00:08:18,120 --> 00:08:22,769
marrow transplantation of these healthy

180
00:08:21,028 --> 00:08:24,810
blood stem cells means that the

181
00:08:22,769 --> 00:08:26,269
patient's bone marrow can produce new

182
00:08:24,810 --> 00:08:29,490
red and white blood cells and platelets

183
00:08:26,269 --> 00:08:31,859
it also means that the patient can have

184
00:08:29,490 --> 00:08:36,450
ongoing chemotherapy and/or radiotherapy

185
00:08:31,860 --> 00:08:37,918
as directed by their clinician now all

186
00:08:36,450 --> 00:08:39,930
of this came to my attention recently

187
00:08:37,918 --> 00:08:42,059
because I saw a tweet on my timeline

188
00:08:39,929 --> 00:08:43,649
from lymphoma Australia who are

189
00:08:42,059 --> 00:08:47,309
campaigning to find a donor for a

190
00:08:43,649 --> 00:08:49,470
specific person quote despite a

191
00:08:47,309 --> 00:08:51,299
worldwide search one Australian family

192
00:08:49,470 --> 00:08:54,028
is still looking for a bone marrow donor

193
00:08:51,299 --> 00:08:56,578
for their much-loved mum you can help if

194
00:08:54,028 --> 00:08:58,950
you're an Australian with UK heritage

195
00:08:56,578 --> 00:09:01,319
and eligible to join the Australian bone

196
00:08:58,950 --> 00:09:03,480
marrow registry please consider taking

197
00:09:01,320 --> 00:09:05,430
the time as soon as you can to donate

198
00:09:03,480 --> 00:09:07,829
blood and ask to join the bone marrow

199
00:09:05,429 --> 00:09:08,969
registry even if you aren't the match

200

00:09:07,828 --> 00:09:10,588
your blood will still be

201
00:09:08,970 --> 00:09:14,459
wonderful gift to another Australian in

202
00:09:10,589 --> 00:09:16,500
need and quote the next tweet on my

203
00:09:14,458 --> 00:09:18,059
timeline was from a friend who tweets a

204
00:09:16,500 --> 00:09:20,698
lot in support of evidence-based

205
00:09:18,059 --> 00:09:23,458
medicine and people campaigning against

206
00:09:20,698 --> 00:09:26,519
dangerous quackery stating that she was

207
00:09:23,458 --> 00:09:28,169
the person who needed the transplant it

208
00:09:26,519 --> 00:09:30,389
was something of a shock she'd never be

209
00:09:28,169 --> 00:09:32,909
in public about having lymphoma and I

210
00:09:30,389 --> 00:09:34,799
wanted to somehow help she spoke with me

211
00:09:32,909 --> 00:09:36,600
about peripheral blood stem cells other

212
00:09:34,799 --> 00:09:39,448
people she knew who are in need of

213
00:09:36,600 --> 00:09:40,980
transplants and her personal situation

214
00:09:39,448 --> 00:09:44,128

raising children and living with

215

00:09:40,980 --> 00:09:45,930

lymphoma I really wanted this week's

216

00:09:44,129 --> 00:09:48,000

report to not only give you some

217

00:09:45,929 --> 00:09:49,769

information on the bone marrow registry

218

00:09:48,000 --> 00:09:51,899

but to take you through my own

219

00:09:49,769 --> 00:09:55,560

experience of joining but unfortunately

220

00:09:51,899 --> 00:09:57,688

I'm not eligible to donate maybe you or

221

00:09:55,559 --> 00:09:59,338

someone you know can though and the more

222

00:09:57,688 --> 00:10:01,139

people are on it the greater chance the

223

00:09:59,339 --> 00:10:04,620

registry can find a match to save

224

00:10:01,139 --> 00:10:06,060

somebody's life for more information on

225

00:10:04,620 --> 00:10:12,120

the Australian bone marrow donor

226

00:10:06,059 --> 00:10:14,429

registry you can visit [WWE BMD rga](#) you

227

00:10:12,120 --> 00:10:18,688

and to line up an appointment to

228

00:10:14,429 --> 00:10:22,188

register via the red cross call 13 14 95

229
00:10:18,688 --> 00:10:24,120
and ask about joining the registry if

230
00:10:22,188 --> 00:10:25,860
you're one of our non-australian

231
00:10:24,120 --> 00:10:28,589
listeners and you're interested in

232
00:10:25,860 --> 00:10:29,970
signing up googling bone marrow donation

233
00:10:28,589 --> 00:10:31,889
should give you some leads on the

234
00:10:29,970 --> 00:10:34,829
agencies and procedures used in your

235
00:10:31,889 --> 00:10:37,169
country several bone marrow donation

236
00:10:34,828 --> 00:10:39,088
registries worldwide including the

237
00:10:37,169 --> 00:10:41,039
Australian bone marrow donor registry

238
00:10:39,089 --> 00:10:43,680
have shared data bases with

239
00:10:41,039 --> 00:10:45,568
de-identified donor information so

240
00:10:43,679 --> 00:10:49,109
donors who sign up are able to help

241
00:10:45,568 --> 00:10:50,490
others in need worldwide I hope that if

242
00:10:49,110 --> 00:10:52,528
you're eligible to donate bone marrow

243

00:10:50,490 --> 00:10:54,448
and interested in doing so you'll

244

00:10:52,528 --> 00:10:55,769
consider joining a registry and that

245

00:10:54,448 --> 00:10:57,899
you'll let others know that there's

246

00:10:55,769 --> 00:10:59,850
something they can do if they want the

247

00:10:57,899 --> 00:11:02,188
chance to help people with blood cancers

248

00:10:59,850 --> 00:11:06,839
and other conditions who would benefit

249

00:11:02,188 --> 00:11:08,818
from a bone marrow transplant for more

250

00:11:06,839 --> 00:11:11,579
evidence please visit evidence please

251

00:11:08,818 --> 00:11:15,389
net found it on Facebook or find me on

252

00:11:11,578 --> 00:11:17,578
Twitter at Joe alabaster and if you sign

253

00:11:15,389 --> 00:11:20,360
up for the bone marrow registry send me

254

00:11:17,578 --> 00:11:22,789
a tweet or drop me a line via Joe ever

255

00:11:20,360 --> 00:11:24,889
please don't net so i can say thank you

256

00:11:22,789 --> 00:11:26,870
and let my friend know that the skeptic

257

00:11:24,889 --> 00:11:30,250
community are signing up to help her and

258
00:11:26,870 --> 00:11:30,250
others with blood cancers

259
00:11:45,129 --> 00:11:49,189
today this is dr. Karl Karl Christmas be

260
00:11:47,720 --> 00:11:51,379
proud to be a skeptic and you can find

261
00:11:49,190 --> 00:11:54,940
out more about me at dr. Kyle calm and

262
00:11:51,379 --> 00:11:54,939
get lots of free stuff there as well

263
00:12:14,200 --> 00:12:21,950
and joining me now all the way from one

264
00:12:18,980 --> 00:12:24,170
of the the city's I dream about visiting

265
00:12:21,950 --> 00:12:26,330
or living in or being there any time I

266
00:12:24,169 --> 00:12:28,789
can get Edinburgh what a beautiful city

267
00:12:26,330 --> 00:12:31,850
it is it's dr. richard wiseman hello

268
00:12:28,789 --> 00:12:34,969
Richard hello great to talk with you we

269
00:12:31,850 --> 00:12:36,620
haven't caught up for a while just as a

270
00:12:34,970 --> 00:12:38,389
general background for people who aren't

271
00:12:36,620 --> 00:12:40,360

familiar with your work what's what's

272

00:12:38,389 --> 00:12:44,629

the richard wiseman story in a nutshell

273

00:12:40,360 --> 00:12:49,039

um well are you sitting comfortably it's

274

00:12:44,629 --> 00:12:53,240

a long story I was I was born yeah yeah

275

00:12:49,039 --> 00:12:55,909

I'm one yes that's right um in 1992 no

276

00:12:53,240 --> 00:12:57,560

goodness oh yes yes it's I look a lot

277

00:12:55,909 --> 00:12:59,449

older than that obviously but it's just

278

00:12:57,559 --> 00:13:01,099

been a very stressful Oh stressful life

279

00:12:59,450 --> 00:13:02,810

so you're a couple of years older than

280

00:13:01,100 --> 00:13:07,399

me that's good keep going that's correct

281

00:13:02,809 --> 00:13:09,319

that's right yes yes and so no no I'm a

282

00:13:07,399 --> 00:13:11,149

psychologist i started my working life

283

00:13:09,320 --> 00:13:13,310

as a magician many years ago still

284

00:13:11,149 --> 00:13:15,439

heavily involved in magic i know lots of

285

00:13:13,309 --> 00:13:19,129

magicians i was with one of them today

286
00:13:15,440 --> 00:13:20,930
actually and then i also have carried

287
00:13:19,129 --> 00:13:22,789
out research into the paranormal that's

288
00:13:20,929 --> 00:13:25,489
why my initial work was looking at from

289
00:13:22,789 --> 00:13:27,409
a source skeptical perspective and then

290
00:13:25,490 --> 00:13:30,490
looked at the psychology of illusion and

291
00:13:27,409 --> 00:13:32,839
then started looking at self-help and

292
00:13:30,490 --> 00:13:35,899
how you make yourself happier and

293
00:13:32,840 --> 00:13:38,180
luckier and so on and now i make youtube

294
00:13:35,899 --> 00:13:40,220
videos and I give talks and I do live

295
00:13:38,179 --> 00:13:42,529
shows and I do a little bit television

296
00:13:40,220 --> 00:13:45,350
and i'm just generally a very very

297
00:13:42,529 --> 00:13:46,699
pleasant person well that we should in

298
00:13:45,350 --> 00:13:48,019
the interview right there richard

299
00:13:46,700 --> 00:13:50,720
wiseman thank you very much but before

300
00:13:48,019 --> 00:13:54,409
we in the interview now folks if you

301
00:13:50,720 --> 00:13:57,470
haven't subscribed to richards youtube

302
00:13:54,409 --> 00:14:02,299
channel it's called quirkology qog

303
00:13:57,470 --> 00:14:04,160
quirkology a hue you i RK o el o gy and

304
00:14:02,299 --> 00:14:06,740
I noticed Richard I was just having a

305
00:14:04,159 --> 00:14:08,750
quick look through today I am a

306
00:14:06,740 --> 00:14:11,899
subscriber of course but i noticed i am

307
00:14:08,750 --> 00:14:13,610
one of almost two million subscribers

308
00:14:11,899 --> 00:14:15,679
and that should tell you something folks

309
00:14:13,610 --> 00:14:18,830
about how interesting the channel is and

310
00:14:15,679 --> 00:14:21,019
not too long ago you put out a new video

311
00:14:18,830 --> 00:14:23,030
where you make a ball disappear you do

312
00:14:21,019 --> 00:14:24,829
all sorts of very interesting tricks

313
00:14:23,029 --> 00:14:26,509
and what's really great is you can watch

314

00:14:24,830 --> 00:14:28,790
half the video and see the ball or

315
00:14:26,509 --> 00:14:31,220
whatever it is disappear and you can

316
00:14:28,789 --> 00:14:32,419
pause it and replay the first part over

317
00:14:31,220 --> 00:14:34,850
and over and over and over again until

318
00:14:32,419 --> 00:14:38,899
you go insane then if you let the video

319
00:14:34,850 --> 00:14:41,509
play through you can see the secret and

320
00:14:38,899 --> 00:14:44,720
I must say that I pause this thing about

321
00:14:41,509 --> 00:14:46,129
six times and I gave up and I had to

322
00:14:44,720 --> 00:14:48,740
look at the secret and I nearly fell off

323
00:14:46,129 --> 00:14:50,870
my chair that is that your latest one

324
00:14:48,740 --> 00:14:53,419
where the ball disappears is surely one

325
00:14:50,870 --> 00:14:56,840
of the best that must have been many

326
00:14:53,419 --> 00:14:57,949
takes it was many many takes and so yes

327
00:14:56,840 --> 00:14:59,540
you're absolutely right about the two

328
00:14:57,950 --> 00:15:00,860

halves the video the first part is

329

00:14:59,539 --> 00:15:03,379

showing what magicians refer to as the

330

00:15:00,860 --> 00:15:05,509

effect the magical bit and normally with

331

00:15:03,379 --> 00:15:07,070

magic normal do magicians you don't get

332

00:15:05,509 --> 00:15:09,409

to go backstage and see what they refer

333

00:15:07,070 --> 00:15:12,200

to as the method but with the quad

334

00:15:09,409 --> 00:15:14,269

ecology tricks or which I invent the

335

00:15:12,200 --> 00:15:16,310

idea is that the method is particularly

336

00:15:14,269 --> 00:15:17,659

intriguing and rather fun and also it's

337

00:15:16,309 --> 00:15:19,459

something a magician's would never use

338

00:15:17,659 --> 00:15:22,039

so i don't get shouted out by the way my

339

00:15:19,460 --> 00:15:24,650

magical colleagues and yet the ball

340

00:15:22,039 --> 00:15:26,269

video i think cousin otherwise it's

341

00:15:24,649 --> 00:15:27,709

always the same i get i get everyone

342

00:15:26,269 --> 00:15:30,169

together to film one of these videos i

343
00:15:27,710 --> 00:15:32,690
say to them you know it'll be about an

344
00:15:30,169 --> 00:15:34,459
hour i had to do this and then I've got

345
00:15:32,690 --> 00:15:36,500
this one works I say it'll be about now

346
00:15:34,460 --> 00:15:39,860
ignore what happened last time it'll be

347
00:15:36,500 --> 00:15:42,409
about an hour and then about do about

348
00:15:39,860 --> 00:15:44,090
three or four hours later when mr.

349
00:15:42,409 --> 00:15:46,339
goodwill has not only left the building

350
00:15:44,090 --> 00:15:49,310
he's got taxi over the other side of

351
00:15:46,340 --> 00:15:51,470
town and everyone is just fed up with

352
00:15:49,309 --> 00:15:53,089
hearing the sound of my voice as I

353
00:15:51,470 --> 00:15:54,259
repeat the script again again or go

354
00:15:53,090 --> 00:15:56,360
through the actions again again

355
00:15:54,259 --> 00:15:58,580
eventually we get one take that works

356
00:15:56,360 --> 00:15:59,870
and that's the one you see so yeah I

357
00:15:58,580 --> 00:16:02,840
think that's probably about 30 takes

358
00:15:59,870 --> 00:16:05,149
something like that but it's so much fun

359
00:16:02,840 --> 00:16:07,399
to kind of put this stuff out there and

360
00:16:05,149 --> 00:16:09,289
i love the ball one um and hasn't a

361
00:16:07,399 --> 00:16:13,429
slightly weird genesis actually because

362
00:16:09,289 --> 00:16:15,439
i went on a holiday to Spain and i was

363
00:16:13,429 --> 00:16:16,879
went to a monkey park I wouldn't really

364
00:16:15,440 --> 00:16:19,100
normally go to a monkey park where

365
00:16:16,879 --> 00:16:20,389
winter monkey park and just as I walked

366
00:16:19,100 --> 00:16:23,210
through the gate to the monkey park a

367
00:16:20,389 --> 00:16:25,759
friend of mine sent me an email with a

368
00:16:23,210 --> 00:16:28,190
link to a clip of a an orangutang

369
00:16:25,759 --> 00:16:30,230
enjoying a magic trick oh yes I have

370
00:16:28,190 --> 00:16:31,910
seen that and that's brilliant yes yeah

371

00:16:30,230 --> 00:16:34,100
one wonderful yeah watching this as I

372
00:16:31,909 --> 00:16:35,659
walk into monkey park and I said to my

373
00:16:34,100 --> 00:16:36,320
frame on my friend back i said i'll go

374
00:16:35,659 --> 00:16:38,029
over to

375
00:16:36,320 --> 00:16:40,700
chimps who are the other side the park

376
00:16:38,029 --> 00:16:43,579
gosh oh the magic trick now I go over

377
00:16:40,700 --> 00:16:44,810
and boy the chimps are not interested in

378
00:16:43,580 --> 00:16:46,610
my trick I don't know if they've seen

379
00:16:44,809 --> 00:16:48,679
other magicians I don't know if there's

380
00:16:46,610 --> 00:16:50,870
been local magic clubs been in the week

381
00:16:48,679 --> 00:16:52,579
before they are not interested and no

382
00:16:50,870 --> 00:16:54,500
interest the chips and then I went over

383
00:16:52,580 --> 00:16:55,820
to the smaller monkeys are you allowed

384
00:16:54,500 --> 00:16:57,559
to play with you're not allowed to play

385
00:16:55,820 --> 00:16:59,150

with the chimps a very good reason but

386

00:16:57,559 --> 00:17:01,429

but the smaller monkeys you can play

387

00:16:59,149 --> 00:17:02,870

with and the smaller monkeys as soon as

388

00:17:01,429 --> 00:17:04,639

you held up a piece of fruit they took

389

00:17:02,870 --> 00:17:06,140

it away and ran away with it so I

390

00:17:04,640 --> 00:17:08,180

thought I could use this from magic

391

00:17:06,140 --> 00:17:10,699

trick so if you look on vine there's a

392

00:17:08,180 --> 00:17:12,709

tiny video of me making a grape

393

00:17:10,699 --> 00:17:14,300

disappear with the aid of one of these

394

00:17:12,709 --> 00:17:16,009

monkeys because as soon as he sees the

395

00:17:14,299 --> 00:17:19,698

the piece of fruit it takes it from me

396

00:17:16,009 --> 00:17:21,349

and runs off so I made that but then

397

00:17:19,699 --> 00:17:23,600

that got me thinking about how you would

398

00:17:21,349 --> 00:17:25,639

actually make a ball disappear in the

399

00:17:23,599 --> 00:17:28,250

position I was holding it which is

400
00:17:25,640 --> 00:17:30,230
monkey which is the genesis of the the

401
00:17:28,250 --> 00:17:31,579
YouTube clip so so there we go lots of

402
00:17:30,230 --> 00:17:33,319
information you didn't want to know

403
00:17:31,579 --> 00:17:36,399
about the genesis of the vanishing red

404
00:17:33,319 --> 00:17:38,869
ball well it's what's fabulous is every

405
00:17:36,400 --> 00:17:41,090
word regular intervals I don't know if

406
00:17:38,869 --> 00:17:42,619
you you have a decision that there every

407
00:17:41,089 --> 00:17:44,599
month or every six months or 3 30

408
00:17:42,619 --> 00:17:47,389
whatever the case may be but regularly

409
00:17:44,599 --> 00:17:50,389
you put up a new video where something

410
00:17:47,390 --> 00:17:52,370
miraculous will happen and it gives the

411
00:17:50,390 --> 00:17:54,440
people like me the chance to try it and

412
00:17:52,369 --> 00:17:58,159
work it out to the best of our ability

413
00:17:54,440 --> 00:18:00,650
that one I thought of every possible

414
00:17:58,160 --> 00:18:02,930
conceivable thing you are doing but but

415
00:18:00,650 --> 00:18:06,680
when I did I ruled out camera tricks as

416
00:18:02,930 --> 00:18:08,120
in funny editing shall I say yeah like

417
00:18:06,680 --> 00:18:09,920
that's the one thing we never knew we

418
00:18:08,119 --> 00:18:12,049
never edit we will never use a camera

419
00:18:09,920 --> 00:18:13,880
tricks oh so what you're seeing is what

420
00:18:12,049 --> 00:18:17,599
you would see if you're standing exactly

421
00:18:13,880 --> 00:18:18,830
where the cameras yeah yes yeah and and

422
00:18:17,599 --> 00:18:21,589
we love the fact that it drives people

423
00:18:18,829 --> 00:18:23,480
mad so there's lots of magicians that

424
00:18:21,589 --> 00:18:25,129
will just watch again again trying to

425
00:18:23,480 --> 00:18:27,680
work out the method that's the part of

426
00:18:25,130 --> 00:18:29,720
the fun of it and yeah but they are

427
00:18:27,680 --> 00:18:31,310
incredibly hard to come up with because

428

00:18:29,720 --> 00:18:33,860
you know you've got to come up these

429
00:18:31,309 --> 00:18:36,049
fresh ideas and then film it and so on

430
00:18:33,859 --> 00:18:38,359
but there's so much fun so yeah I hope

431
00:18:36,049 --> 00:18:41,509
people enjoy their ecology videos well

432
00:18:38,359 --> 00:18:43,759
and it began with a wonderful one you

433
00:18:41,509 --> 00:18:47,450
did with a card trick sitting at a table

434
00:18:43,759 --> 00:18:49,190
with the or a friend and we're all

435
00:18:47,450 --> 00:18:49,920
concentrating on the card trick which is

436
00:18:49,190 --> 00:18:51,779
very interesting

437
00:18:49,920 --> 00:18:53,100
but unbeknownst to us all sorts of other

438
00:18:51,779 --> 00:18:54,569
things are happening in the video I

439
00:18:53,099 --> 00:18:58,879
won't spoil it for people who haven't

440
00:18:54,569 --> 00:19:01,799
seen it but that's very famous video the

441
00:18:58,880 --> 00:19:03,750
yeah it's years ago now at three or four

442
00:19:01,799 --> 00:19:06,329

years ago since that was put online and

443

00:19:03,750 --> 00:19:08,579

it's been copied which is what do they

444

00:19:06,329 --> 00:19:11,009

say to sincere form of flattery when you

445

00:19:08,579 --> 00:19:12,449

copy something yeah lots of people have

446

00:19:11,009 --> 00:19:13,859

done their own versions which is fine

447

00:19:12,450 --> 00:19:16,350

actually I mean that that's part of the

448

00:19:13,859 --> 00:19:19,619

joy of YouTube is to see people sort of

449

00:19:16,349 --> 00:19:21,199

riffing on it and yeah one of the nicest

450

00:19:19,619 --> 00:19:23,250

things that happen that went online

451

00:19:21,200 --> 00:19:25,650

actually the original goes back a long

452

00:19:23,250 --> 00:19:28,740

way the original go back to was 2009 and

453

00:19:25,650 --> 00:19:30,300

it went online and about I know about

454

00:19:28,740 --> 00:19:32,809

two or three months later had an email

455

00:19:30,299 --> 00:19:35,909

from teller out of penn & teller and

456

00:19:32,809 --> 00:19:37,139

Teller said we love this this video we

457
00:19:35,910 --> 00:19:39,000
would like to use it as sort of an

458
00:19:37,140 --> 00:19:40,650
inspiration for a piece that we're going

459
00:19:39,000 --> 00:19:43,410
to perform I said oh well that's great

460
00:19:40,650 --> 00:19:45,570
and then next time I was in Vegas I went

461
00:19:43,410 --> 00:19:47,370
to their live show and indeed every

462
00:19:45,569 --> 00:19:49,710
night they do a piece which is based on

463
00:19:47,369 --> 00:19:51,179
the color changing card trick and so

464
00:19:49,710 --> 00:19:53,100
it's so lovely their thought that

465
00:19:51,180 --> 00:19:55,769
started off in my head and then went on

466
00:19:53,099 --> 00:19:57,539
to YouTube then inspires or two of my

467
00:19:55,769 --> 00:19:59,639
heroes to do something amazing in Vegas

468
00:19:57,539 --> 00:20:01,740
every night so that the joy of YouTube

469
00:19:59,640 --> 00:20:06,330
is you never know who's watching yes

470
00:20:01,740 --> 00:20:09,120
absolutely and you must get some

471
00:20:06,329 --> 00:20:11,759
criticism and I let me use that as a

472
00:20:09,119 --> 00:20:14,309
segue because what you're also known for

473
00:20:11,759 --> 00:20:17,640
although it's now retreating into the

474
00:20:14,309 --> 00:20:21,750
dark dim past now is a bit of a

475
00:20:17,640 --> 00:20:23,900
background folks in 1986 or the late 80s

476
00:20:21,750 --> 00:20:27,019
there were reports of a so-called

477
00:20:23,900 --> 00:20:30,300
telepathic dog in a place called

478
00:20:27,019 --> 00:20:34,349
ramsbottom called JT I'm not making any

479
00:20:30,299 --> 00:20:37,889
of this up and JT's owner that was under

480
00:20:34,349 --> 00:20:39,839
the impression that JT knew when she was

481
00:20:37,890 --> 00:20:41,730
returning home and would wait by the

482
00:20:39,839 --> 00:20:43,949
window even if she was miles away in

483
00:20:41,730 --> 00:20:47,009
town or somewhere else or whatever the

484
00:20:43,950 --> 00:20:48,870
case may be and Rupert Sheldrake who a

485

00:20:47,009 --> 00:20:50,759
lot of our listeners that he'll they'll

486
00:20:48,869 --> 00:20:52,949
know that name conducted a series of

487
00:20:50,759 --> 00:20:54,000
experiments with JT the dog and came to

488
00:20:52,950 --> 00:20:57,600
the conclusion that there was a

489
00:20:54,000 --> 00:20:59,819
telepathic connection and then you came

490
00:20:57,599 --> 00:21:01,549
along did your own experiments which

491
00:20:59,819 --> 00:21:03,849
sort of indicated that there wasn't

492
00:21:01,549 --> 00:21:05,678
which and it's all on YouTube

493
00:21:03,849 --> 00:21:07,750
you can check this out i was just

494
00:21:05,679 --> 00:21:11,650
refreshing my memory today and wow you

495
00:21:07,750 --> 00:21:14,019
look so young some of these videos i'm

496
00:21:11,650 --> 00:21:17,740
using filled a week ago Oh was it yet um

497
00:21:14,019 --> 00:21:18,940
and and I just before we can run e I was

498
00:21:17,740 --> 00:21:21,579
just having a quick chat to you and I

499
00:21:18,940 --> 00:21:23,320

was saying that Rupert Sheldrake I guess

500

00:21:21,579 --> 00:21:24,609

he's still a bit sore about the fact

501

00:21:23,319 --> 00:21:27,069

that you came along and had a look at

502

00:21:24,609 --> 00:21:29,439

this because just in the last six months

503

00:21:27,069 --> 00:21:32,558

or so he with Pam smart the dog's owner

504

00:21:29,440 --> 00:21:34,570

have put up a video basically whinging

505

00:21:32,558 --> 00:21:37,089

as we say about the fact that you came

506

00:21:34,569 --> 00:21:38,710

along and tried to debunk it and they

507

00:21:37,089 --> 00:21:41,109

say in this video that you completely

508

00:21:38,710 --> 00:21:43,110

failed to to debunk the fact that this

509

00:21:41,109 --> 00:21:46,658

dog had telepathic magical powers that

510

00:21:43,109 --> 00:21:49,479

must have been an interesting time it

511

00:21:46,659 --> 00:21:51,039

was I mean it started off as you said me

512

00:21:49,480 --> 00:21:52,419

many years ago i seed struggling to

513

00:21:51,038 --> 00:21:55,990

remember half of what happened now but

514
00:21:52,419 --> 00:21:59,020
it started off on the Paul McKenna world

515
00:21:55,990 --> 00:22:02,440
of the paranormal which was a TV show

516
00:21:59,019 --> 00:22:05,319
over here big TV show and they had a

517
00:22:02,440 --> 00:22:07,360
footage from I think an Austrian

518
00:22:05,319 --> 00:22:12,339
television crew which had carried out an

519
00:22:07,359 --> 00:22:15,158
experiment with with JT and they only

520
00:22:12,339 --> 00:22:17,500
had the footage where JT was going to

521
00:22:15,159 --> 00:22:19,809
the window as his owner which is Pam was

522
00:22:17,500 --> 00:22:22,089
returning and then I was the source

523
00:22:19,808 --> 00:22:23,019
skeptic in the studio and said well the

524
00:22:22,089 --> 00:22:24,189
problem here is we don't know what's

525
00:22:23,019 --> 00:22:25,750
happening the rest of the time maybe

526
00:22:24,190 --> 00:22:28,630
he's constantly going to the window and

527
00:22:25,750 --> 00:22:30,880
so Rupert who's investigating JT at the

528
00:22:28,630 --> 00:22:33,190
time with Pam said why don't you come up

529
00:22:30,880 --> 00:22:35,200
and conduct your own experiments and so

530
00:22:33,190 --> 00:22:38,529
Matt Smith and I who's my research

531
00:22:35,200 --> 00:22:40,509
assistant the time we drove up we did to

532
00:22:38,529 --> 00:22:42,220
experiment didn't think that some the

533
00:22:40,509 --> 00:22:43,509
dog was psychic we then returned again

534
00:22:42,220 --> 00:22:45,940
did another two didn't think they're

535
00:22:43,509 --> 00:22:48,220
psychic and wrote that up and then

536
00:22:45,940 --> 00:22:49,990
Rupert sort of maintained that it was a

537
00:22:48,220 --> 00:22:52,120
statistical effect in there wasn't a

538
00:22:49,990 --> 00:22:53,409
sore directly observable big effect

539
00:22:52,119 --> 00:22:55,629
there was still something a bit odd

540
00:22:53,409 --> 00:22:57,789
about the dog's behavior and so

541
00:22:55,630 --> 00:23:00,070
criticize our work and then for the next

542

00:22:57,788 --> 00:23:01,509
sort of five or six years or something

543
00:23:00,069 --> 00:23:03,629
like that the two of us have gone back

544
00:23:01,509 --> 00:23:06,069
and forth with increasingly complicated

545
00:23:03,630 --> 00:23:07,960
papers about whether or not the dog is

546
00:23:06,069 --> 00:23:09,668
psychic and just to see sort of two

547
00:23:07,960 --> 00:23:11,950
grown men arguing about whether this

548
00:23:09,669 --> 00:23:15,280
very lovely dog unfortunately passed

549
00:23:11,950 --> 00:23:16,750
away now but was psychic is quite site

550
00:23:15,279 --> 00:23:17,710
and he's all on the web if people want

551
00:23:16,750 --> 00:23:20,140
to get into it all those

552
00:23:17,710 --> 00:23:23,110
bizarre out there I warn you now it's it

553
00:23:20,140 --> 00:23:25,690
is complicated but you know weirdly I'm

554
00:23:23,109 --> 00:23:28,569
kind of a fan of Rupert in in many ways

555
00:23:25,690 --> 00:23:31,090
because what he is fantastic at doing is

556
00:23:28,569 --> 00:23:32,740

is doing experiments out in the real

557

00:23:31,089 --> 00:23:34,298

world that are relevant to people's

558

00:23:32,740 --> 00:23:36,579

lives and so whether it's the remote

559

00:23:34,298 --> 00:23:38,889

detection staring or the dog work and

560

00:23:36,579 --> 00:23:40,569

some his other work these carried out is

561

00:23:38,890 --> 00:23:42,820

actually I think actually doing the

562

00:23:40,569 --> 00:23:44,769

right sort of thing often I'm very

563

00:23:42,819 --> 00:23:46,480

critical his methods but I do think is

564

00:23:44,769 --> 00:23:48,519

very creative guy in a very pleasant guy

565

00:23:46,480 --> 00:23:50,589

so it sort of Saturn's maybe that we've

566

00:23:48,519 --> 00:23:52,269

crossed swords so many sometimes because

567

00:23:50,589 --> 00:23:54,908

I could imagine in a different context

568

00:23:52,269 --> 00:23:56,950

would be very close friends but that's

569

00:23:54,909 --> 00:23:59,049

the way it going goes in science and if

570

00:23:56,950 --> 00:24:02,288

you want to read the material it is all

571
00:23:59,048 --> 00:24:04,240
out there in gory detail you can decide

572
00:24:02,288 --> 00:24:07,390
for yourselves whether or not that dog

573
00:24:04,240 --> 00:24:09,819
psychic oh well we can decide for

574
00:24:07,390 --> 00:24:12,038
ourselves and what a PD JT is no longer

575
00:24:09,819 --> 00:24:15,369
with us maybe if we can get a pet

576
00:24:12,038 --> 00:24:16,778
psychic to a contact JT that would solve

577
00:24:15,369 --> 00:24:18,579
the prob their words that would clear it

578
00:24:16,778 --> 00:24:20,919
up we could ask JT directly are you

579
00:24:18,579 --> 00:24:23,769
psyched light i I don't know the

580
00:24:20,919 --> 00:24:27,220
psychics contact animals I i I'm sure

581
00:24:23,769 --> 00:24:29,798
they do I well I I don't that's a very

582
00:24:27,220 --> 00:24:31,659
good question um yesterday channel dead

583
00:24:29,798 --> 00:24:33,369
out maybe they do maybe they do oh we

584
00:24:31,659 --> 00:24:35,520
are there's a whole PhD thesis in there

585
00:24:33,369 --> 00:24:38,798
for someone not me no it's either I

586
00:24:35,519 --> 00:24:39,788
think that quite clear I don't know if

587
00:24:38,798 --> 00:24:41,769
you've caught up with the fact that

588
00:24:39,788 --> 00:24:43,538
there's a university here in Wollongong

589
00:24:41,769 --> 00:24:47,889
who just recently awarded a PhD to

590
00:24:43,538 --> 00:24:49,058
someone who wrote a thesis on extolling

591
00:24:47,890 --> 00:24:51,610
the virtue of anti-vaccination

592
00:24:49,058 --> 00:24:53,168
conspiracy theories from from a point of

593
00:24:51,609 --> 00:24:54,969
view of being in and evac so it's it's

594
00:24:53,169 --> 00:24:56,710
mind boggling so maybe I can get a PhD

595
00:24:54,970 --> 00:24:59,230
at the woman got University of

596
00:24:56,710 --> 00:25:02,798
Wollongong I think a lot channeling Adam

597
00:24:59,230 --> 00:25:04,329
ungentle and I think so yes no doubt now

598
00:25:02,798 --> 00:25:06,038
let's have a quick chat about some of

599

00:25:04,329 --> 00:25:07,720
your books of course you don't just do

600
00:25:06,038 --> 00:25:10,179
research papers you don't just do

601
00:25:07,720 --> 00:25:12,759
marvelous online videos you don't just

602
00:25:10,179 --> 00:25:16,480
talk to psychic dogs you write books I

603
00:25:12,759 --> 00:25:19,629
do you do yes far too many silence a

604
00:25:16,480 --> 00:25:21,788
fatty not not me I owe you understand or

605
00:25:19,630 --> 00:25:23,289
my publisher but others was say no

606
00:25:21,788 --> 00:25:25,509
everyone I've written was the last one

607
00:25:23,288 --> 00:25:27,730
I've just written ones coming out

608
00:25:25,509 --> 00:25:30,129
towards the end of this year but the one

609
00:25:27,730 --> 00:25:31,720
before that was called night school and

610
00:25:30,130 --> 00:25:34,059
all about the

611
00:25:31,720 --> 00:25:36,460
ients of sleep and dreaming which I love

612
00:25:34,058 --> 00:25:39,009
I become absolutely fascinated know if I

613
00:25:36,460 --> 00:25:41,620

did you have an appt about that i think

614

00:25:39,009 --> 00:25:43,658

yes yeah that was the so there to

615

00:25:41,619 --> 00:25:45,279

sort of pathways into the book one was

616

00:25:43,659 --> 00:25:47,770

that I used to suffer from night terrors

617

00:25:45,279 --> 00:25:49,509

when I was an adult actually as unusual

618

00:25:47,769 --> 00:25:51,849

I didn't have them as a kid had them as

619

00:25:49,509 --> 00:25:54,970

an adult and people don't know that's

620

00:25:51,849 --> 00:25:56,619

where you sit up in bed you appear to be

621

00:25:54,970 --> 00:25:58,480

awake because your eyes are open but you

622

00:25:56,619 --> 00:26:00,699

you're not actually you're in them on

623

00:25:58,480 --> 00:26:02,470

deepest forms asleep and you think

624

00:26:00,700 --> 00:26:04,269

there's some kind of weird entities some

625

00:26:02,470 --> 00:26:08,230

normally sort of demonic entity in the

626

00:26:04,269 --> 00:26:10,538

room and you scream out and what's sort

627

00:26:08,230 --> 00:26:12,429

of vaguely amusing about it is if you're

628
00:26:10,538 --> 00:26:13,990
sleeping next to somebody else they

629
00:26:12,429 --> 00:26:16,809
genuinely wake up because you've just

630
00:26:13,990 --> 00:26:18,370
screamed out so they wake up and they're

631
00:26:16,808 --> 00:26:20,048
knobs in full waking state and

632
00:26:18,369 --> 00:26:21,788
adrenaline going and heart beating and

633
00:26:20,048 --> 00:26:24,400
then you just fall straight back to

634
00:26:21,788 --> 00:26:27,490
sleep leaving them fully awake another

635
00:26:24,400 --> 00:26:28,960
of the next kind of hour or so so it's

636
00:26:27,490 --> 00:26:31,900
more terrifying for them in some ways

637
00:26:28,960 --> 00:26:34,509
certainly more problematic for them than

638
00:26:31,900 --> 00:26:35,500
it is for the person suffering one so

639
00:26:34,509 --> 00:26:37,690
did though they had those for a while

640
00:26:35,500 --> 00:26:40,900
and got fascinated by what was happening

641
00:26:37,690 --> 00:26:42,519
in my mind and and then turn part of it

642
00:26:40,900 --> 00:26:44,530
was simply sleeping in the room that was

643
00:26:42,519 --> 00:26:45,849
too hot and when she bring the

644
00:26:44,529 --> 00:26:47,829
temperature down in the room you don't

645
00:26:45,849 --> 00:26:50,408
have them quite so much so I now sleep

646
00:26:47,829 --> 00:26:52,629
in essentially an ice box which is it's

647
00:26:50,409 --> 00:26:56,590
delightful for caroline has to sleep

648
00:26:52,630 --> 00:26:59,049
next to me so anyway that's what it so

649
00:26:56,589 --> 00:27:02,678
there's that and then around the same

650
00:26:59,048 --> 00:27:04,690
time I was talking to an apt company

651
00:27:02,679 --> 00:27:06,429
I'd read some research about what's

652
00:27:04,690 --> 00:27:07,808
called dream intrusion which is that

653
00:27:06,429 --> 00:27:10,720
when you dream although you're blind

654
00:27:07,808 --> 00:27:12,069
you're not deaf you can hear sounds and

655
00:27:10,720 --> 00:27:14,919
often you incorporate them into your

656

00:27:12,069 --> 00:27:16,899
dream so you may hear an alarm clock go

657
00:27:14,919 --> 00:27:18,850
off and you hear it as church bells for

658
00:27:16,900 --> 00:27:21,038
example in your dreams are a common one

659
00:27:18,849 --> 00:27:24,339
and there was a little bit of research

660
00:27:21,038 --> 00:27:25,960
in 1970s very easy tarek work which

661
00:27:24,339 --> 00:27:27,519
looked at what happened when you played

662
00:27:25,960 --> 00:27:28,840
in sounds to people when they were

663
00:27:27,519 --> 00:27:31,029
dreaming you know if that's Pleasant

664
00:27:28,839 --> 00:27:32,439
sounds or whatever it is anyway they

665
00:27:31,029 --> 00:27:34,538
found that that yes indeed you could

666
00:27:32,440 --> 00:27:36,759
influence people's dreams so we make it

667
00:27:34,538 --> 00:27:38,529
that made an appt out of it we ask

668
00:27:36,759 --> 00:27:41,679
people to say on the app what time they

669
00:27:38,529 --> 00:27:43,178
wanted to wake up in the 45 minutes or

670
00:27:41,679 --> 00:27:46,119

so before you wake up you're almost

671

00:27:43,179 --> 00:27:48,729

certainly dreaming and so the app would

672

00:27:46,118 --> 00:27:51,098

quietly play in a soundscape of your

673

00:27:48,729 --> 00:27:53,318

choice so you could decide to go for a

674

00:27:51,098 --> 00:27:54,938

walk in the country you could go for a

675

00:27:53,318 --> 00:27:56,828

walk along the beach you could be

676

00:27:54,939 --> 00:27:59,019

attacked by zombies whatever you wanted

677

00:27:56,828 --> 00:28:01,479

the weather we have a soundscape for it

678

00:27:59,019 --> 00:28:04,838

and then in the morning oh and you did

679

00:28:01,479 --> 00:28:07,149

wake up the app would ask you to type in

680

00:28:04,838 --> 00:28:10,058

your dream and we collected millions of

681

00:28:07,148 --> 00:28:12,308

dream reports and also found that the

682

00:28:10,058 --> 00:28:14,168

soundscapes were indeed and in terms of

683

00:28:12,308 --> 00:28:16,028

the nature ones at least making people

684

00:28:14,169 --> 00:28:18,399

feel more relaxed and they were having

685
00:28:16,028 --> 00:28:20,138
less dreams that's interesting because

686
00:28:18,398 --> 00:28:24,098
often I'll fall asleep with the in bugs

687
00:28:20,138 --> 00:28:27,128
in and I'm listening to the podcast or

688
00:28:24,098 --> 00:28:29,078
some radio show or something and if if I

689
00:28:27,128 --> 00:28:30,638
don't set the timer and the Vice

690
00:28:29,078 --> 00:28:32,588
switches itself off it'll often play

691
00:28:30,638 --> 00:28:35,258
right through the night and but it

692
00:28:32,588 --> 00:28:41,108
during the wee hours or not long before

693
00:28:35,259 --> 00:28:43,019
waking I distinctly remember the podcast

694
00:28:41,108 --> 00:28:45,638
or the people speaking being

695
00:28:43,019 --> 00:28:48,548
incorporated into the dream it's quite

696
00:28:45,638 --> 00:28:49,958
quite quite weird it is it is very weird

697
00:28:48,548 --> 00:28:52,269
and so if you were particularly light

698
00:28:49,959 --> 00:28:53,649
sleeper it's very likely to happen if

699

00:28:52,269 --> 00:28:54,939

people are struggling to sleep i

700

00:28:53,648 --> 00:28:56,708

obviously i wouldn't recommend your

701

00:28:54,939 --> 00:28:59,528

podcast because this will give anyone a

702

00:28:56,709 --> 00:29:02,259

muumuu is my stimulating conversation

703

00:28:59,528 --> 00:29:04,239

but there is that yeah we created some

704

00:29:02,259 --> 00:29:06,038

music which is free on YouTube which

705

00:29:04,239 --> 00:29:08,379

people can listen to very relaxing music

706

00:29:06,038 --> 00:29:10,568

but also there's another podcast called

707

00:29:08,378 --> 00:29:14,318

I think sleep with me which is a guy

708

00:29:10,568 --> 00:29:16,418

just talking gibberish so it makes no

709

00:29:14,318 --> 00:29:18,038

sense at all I feel like I'm in

710

00:29:16,419 --> 00:29:20,979

conversation with me it makes no sense

711

00:29:18,038 --> 00:29:22,719

at all but as you because it's quite

712

00:29:20,979 --> 00:29:24,699

hard to try and make sense of it it's

713

00:29:22,719 --> 00:29:26,318
actually it does put you to sleep and

714
00:29:24,699 --> 00:29:28,058
it's been very effective many many

715
00:29:26,318 --> 00:29:30,578
download so i always recommend that to

716
00:29:28,058 --> 00:29:32,918
people and so yeah so I've become

717
00:29:30,578 --> 00:29:35,438
fascinated by by sleep and dreaming that

718
00:29:32,919 --> 00:29:38,229
well I try it myself although I I'm

719
00:29:35,439 --> 00:29:39,699
since I've started this process of

720
00:29:38,229 --> 00:29:42,129
listening to something as I'm falling

721
00:29:39,699 --> 00:29:45,788
asleep I've got quite addicted to it I

722
00:29:42,128 --> 00:29:48,668
guess I and now if I if I'm in a quiet

723
00:29:45,788 --> 00:29:50,739
place with no noise of dead quiet in a

724
00:29:48,669 --> 00:29:54,369
hotel room or something like that it's

725
00:29:50,739 --> 00:29:56,318
it's to Erie it's the old case of people

726
00:29:54,368 --> 00:29:58,679
can sleep better if they hear the rain

727
00:29:56,318 --> 00:30:00,359

on the roof or something or the sea

728

00:29:58,680 --> 00:30:02,700

wind or something like that it's an

729

00:30:00,359 --> 00:30:05,279

interesting phenomenon that that's right

730

00:30:02,700 --> 00:30:06,600

i mean Sean saying repetitive and not

731

00:30:05,279 --> 00:30:09,599

too much of happening in there and then

732

00:30:06,599 --> 00:30:11,939

and so on so yeah so there you know we

733

00:30:09,599 --> 00:30:13,019

spend about a third of our lives asleep

734

00:30:11,940 --> 00:30:15,480

and about a quarter of that time

735

00:30:13,019 --> 00:30:18,329

dreaming and we just don't think we turn

736

00:30:15,480 --> 00:30:19,950

off our minds and it just so isn't the

737

00:30:18,329 --> 00:30:21,929

case i means always sleep science

738

00:30:19,950 --> 00:30:23,940

showing that you're in a different stage

739

00:30:21,930 --> 00:30:25,410

of consciousness and that is absolutely

740

00:30:23,940 --> 00:30:28,320

vital for psychological and physical

741

00:30:25,410 --> 00:30:30,090

well-being and yet because of what's

742
00:30:28,319 --> 00:30:32,700
happening with 24-hour media and the web

743
00:30:30,089 --> 00:30:34,709
and so on with squeezing sleep time and

744
00:30:32,700 --> 00:30:36,930
then and trans benders little time as

745
00:30:34,710 --> 00:30:39,690
possible in bed to sleep particularly

746
00:30:36,930 --> 00:30:40,799
teenagers and kids and we really need to

747
00:30:39,690 --> 00:30:43,590
be doing the opposite we need to

748
00:30:40,799 --> 00:30:44,789
recognize that the sleep is in every

749
00:30:43,589 --> 00:30:46,589
pretty much every animal in the world

750
00:30:44,789 --> 00:30:51,720
for a reason you know it plays a vital

751
00:30:46,589 --> 00:30:54,059
role in our lives absolutely now Richard

752
00:30:51,720 --> 00:30:56,610
I understand that you're also um at

753
00:30:54,059 --> 00:30:58,230
least on the fringes somewhat involved

754
00:30:56,609 --> 00:30:59,639
with the good thinking society and our

755
00:30:58,230 --> 00:31:01,410
good friends at the good thinking

756
00:30:59,640 --> 00:31:04,110
society Michael Marshall and Simon Singh

757
00:31:01,410 --> 00:31:06,240
that must be interesting it is

758
00:31:04,109 --> 00:31:09,149
interesting in fact the name the good

759
00:31:06,240 --> 00:31:10,920
thinking society is my idea is a Simon

760
00:31:09,150 --> 00:31:12,030
yes I'm came to me a few years ago and

761
00:31:10,920 --> 00:31:14,670
he said he's thinking of setting up a

762
00:31:12,029 --> 00:31:15,809
charity and he had various ideas when

763
00:31:14,670 --> 00:31:17,130
kick summer allies were about good

764
00:31:15,809 --> 00:31:20,399
thinking society and that's that's

765
00:31:17,130 --> 00:31:23,760
what's done and they're doing great work

766
00:31:20,400 --> 00:31:26,040
so yet mar she works with him they've

767
00:31:23,759 --> 00:31:30,299
done some sort of we work on and sort of

768
00:31:26,039 --> 00:31:32,879
homeopathy in the NHS and yet so great

769
00:31:30,299 --> 00:31:34,700
to see you know it sort of speaks and

770

00:31:32,880 --> 00:31:37,470
I've seen this more and more actually

771
00:31:34,700 --> 00:31:40,590
across the world it speaks to the power

772
00:31:37,470 --> 00:31:42,660
of one or two people you know often the

773
00:31:40,589 --> 00:31:44,879
two of them are accomplishing more than

774
00:31:42,660 --> 00:31:46,650
20 or 30 people in a bigger organization

775
00:31:44,880 --> 00:31:48,570
just across the other side of town yeah

776
00:31:46,650 --> 00:31:50,759
and it always reminds me of you know

777
00:31:48,569 --> 00:31:53,339
someone like Randy where you kind of

778
00:31:50,759 --> 00:31:56,369
think it's it's just one guy you know

779
00:31:53,339 --> 00:31:59,819
he's not even especially tall oh it's

780
00:31:56,369 --> 00:32:01,889
much your guy but my goodness look at

781
00:31:59,819 --> 00:32:04,230
what he accomplished yo the I don't have

782
00:32:01,890 --> 00:32:07,290
you seen the the honest liar documentary

783
00:32:04,230 --> 00:32:10,680
oh yes I I'm almost in it are you almost

784
00:32:07,289 --> 00:32:11,720

there they were filming a big section of

785

00:32:10,680 --> 00:32:13,429
that one

786

00:32:11,720 --> 00:32:15,980
during the amazing meeting and I was in

787

00:32:13,429 --> 00:32:17,990
a big conference with Randy and banachek

788

00:32:15,980 --> 00:32:19,370
and some other people in my role as

789

00:32:17,990 --> 00:32:21,650
being on the million-dollar committee

790

00:32:19,369 --> 00:32:23,959
and and out of the corner of my eye

791

00:32:21,650 --> 00:32:26,450
there's this camera crew circling us

792

00:32:23,960 --> 00:32:28,460
like vultures and that that was the

793

00:32:26,450 --> 00:32:29,870
camera crew for an honest lie and when I

794

00:32:28,460 --> 00:32:31,759
went to see the movie I thought I might

795

00:32:29,869 --> 00:32:34,369
see myself but I just ended up on the

796

00:32:31,759 --> 00:32:37,940
cutting room floor but uh well the best

797

00:32:34,369 --> 00:32:39,259
of us um hate it it's great you mean

798

00:32:37,940 --> 00:32:42,110
wonderful movie and and it just sort of

799

00:32:39,259 --> 00:32:44,779

shows you you know one person has

800

00:32:42,109 --> 00:32:46,490

accomplished and so sometimes you know I

801

00:32:44,779 --> 00:32:47,928

think we get a bit something to get it

802

00:32:46,490 --> 00:32:49,819

down and go you know there's just this

803

00:32:47,929 --> 00:32:52,400

lone voice of skepticism and what

804

00:32:49,819 --> 00:32:54,889

different well then look at Simon look

805

00:32:52,400 --> 00:32:56,509

at Randy you know these are individuals

806

00:32:54,890 --> 00:32:59,000

or a talented individuals nevertheless

807

00:32:56,509 --> 00:33:00,710

but just one person making a huge

808

00:32:59,000 --> 00:33:02,569

difference so yeah impressed by that the

809

00:33:00,710 --> 00:33:04,610

good thinking society it's yeah it's

810

00:33:02,569 --> 00:33:06,048

good and we certainly are good friends

811

00:33:04,609 --> 00:33:08,569

with a good thinking society here the

812

00:33:06,048 --> 00:33:10,190

skeptic salmon we promote them whenever

813
00:33:08,569 --> 00:33:11,750
we can in fact Michael Marshall is a

814
00:33:10,190 --> 00:33:13,730
regular guest on the show and I'm always

815
00:33:11,750 --> 00:33:16,880
delighted to have him before we wrap up

816
00:33:13,730 --> 00:33:18,169
Richard and I'll add this link to the to

817
00:33:16,880 --> 00:33:20,720
the show notes although it's easy to

818
00:33:18,169 --> 00:33:24,009
find folks if you want to hear a very

819
00:33:20,720 --> 00:33:26,900
pleasant chat with Richard Wiseman in

820
00:33:24,009 --> 00:33:29,329
2012 i visited edinburgh and Richard and

821
00:33:26,900 --> 00:33:31,548
I had a stroll along the streets and

822
00:33:29,329 --> 00:33:33,529
down by the river and we just had a chat

823
00:33:31,548 --> 00:33:35,538
about skepticism in general and all

824
00:33:33,529 --> 00:33:39,889
sorts of things now that's on the

825
00:33:35,538 --> 00:33:41,990
skeptic zone number episode number 176

826
00:33:39,890 --> 00:33:44,030
and that's from March 2012 and that was

827

00:33:41,990 --> 00:33:46,909
a very pleasant afternoon I spent with

828
00:33:44,029 --> 00:33:48,408
you wandering around Edinburgh it was

829
00:33:46,909 --> 00:33:50,390
very nice i remember that was it all

830
00:33:48,409 --> 00:33:53,659
those he cuz that almost swell 34 years

831
00:33:50,390 --> 00:33:55,788
ago my goodness yeah it's I know I I had

832
00:33:53,659 --> 00:33:57,650
to remind myself I had to look it up and

833
00:33:55,788 --> 00:33:58,970
see exactly when that was it doesn't

834
00:33:57,650 --> 00:34:01,580
seem like that long ago but that was a

835
00:33:58,970 --> 00:34:04,960
very doesn't yeah and I and I was very

836
00:34:01,579 --> 00:34:07,158
pleased that visit to I also spoke at

837
00:34:04,960 --> 00:34:09,320
skeptics in the pub I think in Edinburgh

838
00:34:07,159 --> 00:34:11,030
which was very good was a big thrill and

839
00:34:09,320 --> 00:34:14,119
then you and I I think subsequent will

840
00:34:11,030 --> 00:34:15,619
he went down to Manchester for QED yes

841
00:34:14,119 --> 00:34:17,599

get is great which of course you know

842

00:34:15,619 --> 00:34:19,820

Marsh who spoke about earlier on the

843

00:34:17,599 --> 00:34:21,559

good thinking society helps run QED so

844

00:34:19,820 --> 00:34:22,789

yeah and again another example of a

845

00:34:21,559 --> 00:34:24,980

fairly small group of people I think

846

00:34:22,789 --> 00:34:27,320

about six of them run this

847

00:34:24,980 --> 00:34:28,820

skeptics convention which is probably

848

00:34:27,320 --> 00:34:32,539

the certainly the best skeptical event

849

00:34:28,820 --> 00:34:33,619

in the UK you know and just just amazing

850

00:34:32,539 --> 00:34:35,898

what people can do and they put their

851

00:34:33,619 --> 00:34:38,840

minds to it yes and if there's any

852

00:34:35,898 --> 00:34:41,299

airline out there which I can suck up to

853

00:34:38,840 --> 00:34:44,000

Qantas hello british airways left hand

854

00:34:41,300 --> 00:34:46,460

so i don't care bulgarian air if you

855

00:34:44,000 --> 00:34:47,989

want to get me a tickets to go to QED i

856
00:34:46,460 --> 00:34:50,720
will certainly speak highly of your

857
00:34:47,989 --> 00:34:53,750
airline mm-hmm you could you could you

858
00:34:50,719 --> 00:34:55,489
can you boat it go get you just a couple

859
00:34:53,750 --> 00:34:57,920
of yeah I've seen this or rowing boats

860
00:34:55,489 --> 00:34:59,479
and those people oh it can't be that far

861
00:34:57,920 --> 00:35:02,000
you could just you could just come

862
00:34:59,480 --> 00:35:03,619
around somewhere and and just um yeah

863
00:35:02,000 --> 00:35:06,980
just poke the whole thing I could and

864
00:35:03,619 --> 00:35:09,980
and I the exercise I could gain doing

865
00:35:06,980 --> 00:35:12,230
that would let me m feast out at QED I

866
00:35:09,980 --> 00:35:13,880
think that's a very good idea I think so

867
00:35:12,230 --> 00:35:15,500
I if you set up a Kickstarter from that

868
00:35:13,880 --> 00:35:21,349
I think that's giving a lot of support

869
00:35:15,500 --> 00:35:24,050
that's all I'm saying I think no doubt

870
00:35:21,349 --> 00:35:25,909
no doubt Richard how can people catch up

871
00:35:24,050 --> 00:35:29,240
with your work where can they go where

872
00:35:25,909 --> 00:35:31,639
can a visit they can I guess come on

873
00:35:29,239 --> 00:35:33,829
twitter at richard wiseman on twitter I

874
00:35:31,639 --> 00:35:36,230
post lots of things there they can look

875
00:35:33,829 --> 00:35:38,539
at my website Richard Wiseman com they

876
00:35:36,230 --> 00:35:40,608
can look at my videos on YouTube with a

877
00:35:38,539 --> 00:35:42,259
quick ecology channel or they can come

878
00:35:40,608 --> 00:35:43,940
along and see me live which is my

879
00:35:42,260 --> 00:35:45,859
favorite thing for them to do come say

880
00:35:43,940 --> 00:35:47,210
hello afterwards so I give talks all

881
00:35:45,858 --> 00:35:50,449
over the place and I always post them on

882
00:35:47,210 --> 00:35:51,920
Twitter so um yeah come along that's the

883
00:35:50,449 --> 00:35:54,139
that's the ticket folks especially a

884

00:35:51,920 --> 00:35:56,510
follow richard on on twitter please

885
00:35:54,139 --> 00:36:00,049
subscribe to quirkology on youtube

886
00:35:56,510 --> 00:36:01,670
because you will be delighted absolutely

887
00:36:00,050 --> 00:36:03,470
delighted and quite mystified by the

888
00:36:01,670 --> 00:36:06,940
videos he puts up and when you see the

889
00:36:03,469 --> 00:36:10,279
solution to the problems you'll go oh

890
00:36:06,940 --> 00:36:15,139
yeah which is my reaction Richard

891
00:36:10,280 --> 00:36:18,200
Richard Wi-Fi sly people I have hope you

892
00:36:15,139 --> 00:36:20,599
sense it too like wonderin or wait

893
00:36:18,199 --> 00:36:23,089
that's what i meant i'm sorry i see i

894
00:36:20,599 --> 00:36:25,579
see it's just like that's the australian

895
00:36:23,090 --> 00:36:27,350
way of expressing delight and war in one

896
00:36:25,579 --> 00:36:30,559
day I see it's not that I felt

897
00:36:27,349 --> 00:36:32,719
disappointment oh no he's done lacking

898
00:36:30,559 --> 00:36:34,308

he's right he's been that he knows is

899

00:36:32,719 --> 00:36:37,248

that

900

00:36:34,309 --> 00:36:39,048

you stupid Richard Wiseman all the way

901

00:36:37,248 --> 00:36:41,899

from beautiful Edinburgh thank you very

902

00:36:39,048 --> 00:37:15,139

much a pleasure thank you very much for

903

00:36:41,900 --> 00:37:17,989

inviting me dr. Harriet hall md no one

904

00:37:15,139 --> 00:37:20,389

to thousands as the skeptic a retired

905

00:37:17,989 --> 00:37:23,239

family physician and former Air Force

906

00:37:20,389 --> 00:37:25,188

flight surgeon she writes about medicine

907

00:37:23,239 --> 00:37:28,759

so called complementary and alternative

908

00:37:25,188 --> 00:37:32,118

medicine science hi curry and critical

909

00:37:28,759 --> 00:37:34,369

thinking Harriet now has a free course a

910

00:37:32,119 --> 00:37:37,420

series of 10 video lectures on science

911

00:37:34,369 --> 00:37:40,189

based medicine and alternative medicine

912

00:37:37,420 --> 00:37:42,409

the videos and an accompanying course

913
00:37:40,188 --> 00:37:46,518
guide can be found by following the link

914
00:37:42,409 --> 00:37:51,048
at skeptic info or by visiting web

915
00:37:46,518 --> 00:37:55,278
Randy's org slash educational modules

916
00:37:51,048 --> 00:37:58,009
dot HTML topics covered in the series

917
00:37:55,278 --> 00:38:01,150
are science-based medicine vs.

918
00:37:58,009 --> 00:38:04,539
evidence-based medicine what is cam

919
00:38:01,150 --> 00:38:07,759
chiropractic acupuncture homeopathy

920
00:38:04,539 --> 00:38:09,859
naturopathy and herbal medicine energy

921
00:38:07,759 --> 00:38:13,039
medicine miscellaneous alternatives

922
00:38:09,858 --> 00:38:16,328
pitfalls in research and science-based

923
00:38:13,039 --> 00:38:19,099
medicine in the media and politics

924
00:38:16,329 --> 00:38:21,650
Harriet covers each topic in a matter of

925
00:38:19,099 --> 00:38:27,338
fact no-nonsense way that shorter

926
00:38:21,650 --> 00:38:27,338
educate and entertain skeptic dot info

927

00:38:35,480 --> 00:38:40,588

welcome to a week in science from our

928

00:38:37,920 --> 00:38:42,778

iOS bringing you the science you need to

929

00:38:40,588 --> 00:38:44,788

know ever wanted to take a stroll on the

930

00:38:42,778 --> 00:38:46,588

surface of Mars may be analyzed some

931

00:38:44,789 --> 00:38:48,690

rock formations well thanks to a

932

00:38:46,588 --> 00:38:50,369

collaboration between NASA and Microsoft

933

00:38:48,690 --> 00:39:01,108

scientists are getting the chance to do

934

00:38:50,369 --> 00:39:03,480

just that although it's about 55 million

935

00:39:01,108 --> 00:39:05,400

kilometers away at best and at times as

936

00:39:03,480 --> 00:39:08,010

far as 400 million kilometers away

937

00:39:05,400 --> 00:39:10,019

thanks to virtual reality the surface of

938

00:39:08,010 --> 00:39:12,359

Mars has never been closer as long as

939

00:39:10,019 --> 00:39:14,969

you've got the right accessories strapon

940

00:39:12,358 --> 00:39:16,588

a microsoft hololens headset and fire up

941

00:39:14,969 --> 00:39:19,199
their on-site software and you'll be

942
00:39:16,588 --> 00:39:21,239
transported to another world using data

943
00:39:19,199 --> 00:39:22,558
from the Curiosity rover the virtual

944
00:39:21,239 --> 00:39:24,629
reality system creates a

945
00:39:22,559 --> 00:39:27,480
three-dimensional explorable planetary

946
00:39:24,630 --> 00:39:29,970
surface scientists can behave just like

947
00:39:27,480 --> 00:39:31,318
geologists do here on earth walking

948
00:39:29,969 --> 00:39:33,509
around an object to get a better view

949
00:39:31,318 --> 00:39:35,608
crouching down to inspect it from a new

950
00:39:33,510 --> 00:39:37,528
angle and understanding the spatial

951
00:39:35,608 --> 00:39:42,058
relationships between objects in a more

952
00:39:37,528 --> 00:39:43,588
natural human way researchers can also

953
00:39:42,059 --> 00:39:44,940
do things like target an object by

954
00:39:43,588 --> 00:39:47,460
looking at it and use gesture-based

955
00:39:44,940 --> 00:39:49,170

menus to program the rover the

956

00:39:47,460 --> 00:39:51,778

technology can bring together scientists

957

00:39:49,170 --> 00:39:53,130

from all over the world researchers from

958

00:39:51,778 --> 00:39:54,869

different countries can both wear

959

00:39:53,130 --> 00:39:56,730

headsets and access the same mars

960

00:39:54,869 --> 00:39:59,460

surface program communicating directly

961

00:39:56,730 --> 00:40:01,559

through the system NASA's next steps for

962

00:39:59,460 --> 00:40:04,170

exploring Mars are to send an orbiter in

963

00:40:01,559 --> 00:40:07,109

2016 participate in the European Space

964

00:40:04,170 --> 00:40:10,289

Agency's rover mission in 2018 and send

965

00:40:07,108 --> 00:40:13,429

that iron Rover in 2020 and now for fast

966

00:40:10,289 --> 00:40:16,130

facts about the red planet

967

00:40:13,429 --> 00:40:18,318

Mars is about half the size of Earth but

968

00:40:16,130 --> 00:40:20,420

the land area of both planets is about

969

00:40:18,318 --> 00:40:23,210

the same depending on planetary

970
00:40:20,420 --> 00:40:26,240
positions launch speed and fuel load it

971
00:40:23,210 --> 00:40:28,039
takes between 150 and 300 days the

972
00:40:26,239 --> 00:40:30,769
spacecraft to travel from Earth to Mars

973
00:40:28,039 --> 00:40:33,980
the first Mars rover the Pathfinder

974
00:40:30,769 --> 00:40:36,190
Surgenor landed in 1997 the spirit and

975
00:40:33,980 --> 00:40:38,088
the opportunity arrived in 2004 and

976
00:40:36,190 --> 00:40:41,450
curiosity has been patrolling the

977
00:40:38,088 --> 00:40:43,549
surface since 2012 curiosity has a

978
00:40:41,449 --> 00:40:45,529
tendency to take selfies but relies on

979
00:40:43,550 --> 00:40:47,269
its friends back on earth to digitally

980
00:40:45,530 --> 00:40:49,819
remove the extendable arm that takes the

981
00:40:47,269 --> 00:40:51,889
snap that's it for this week in science

982
00:40:49,818 --> 00:40:56,389
for more information on exploring Mars

983
00:40:51,889 --> 00:40:59,328
go to the rirs website RI aus org dot a

984
00:40:56,389 --> 00:41:01,879
you follow us on twitter at our iOS and

985
00:40:59,329 --> 00:41:05,289
like us on Facebook I'm Casey Harrigan

986
00:41:01,880 --> 00:41:05,289
and we'll catch you next week

987
00:41:22,949 --> 00:41:27,210
be reasonable it's a podcast in the

988
00:41:24,929 --> 00:41:29,368
merseyside skeptics society hosted by

989
00:41:27,210 --> 00:41:31,108
Michael Marshall in each monthly

990
00:41:29,369 --> 00:41:33,269
interview we'll examine belief from

991
00:41:31,108 --> 00:41:34,889
outside of the mainstream exploring how

992
00:41:33,269 --> 00:41:36,659
those views are constructed and what

993
00:41:34,889 --> 00:41:40,019
evidence people feel supports their case

994
00:41:36,659 --> 00:41:42,598
on the latest episode I speak with dr.

995
00:41:40,019 --> 00:41:46,380
pol burn a pediatrician and prominent

996
00:41:42,599 --> 00:41:49,109
campaigner against organ donation you

997
00:41:46,380 --> 00:41:52,500
use the word market and yes it is market

998

00:41:49,108 --> 00:41:56,039
because the organ transplant industry is

999
00:41:52,500 --> 00:41:58,769
a multi-billion dollar industry and it

1000
00:41:56,039 --> 00:42:01,529
all depends on getting healthy organs

1001
00:41:58,769 --> 00:42:04,108
and the only place you get healthy

1002
00:42:01,530 --> 00:42:06,180
organs from living persons hey what Paul

1003
00:42:04,108 --> 00:42:08,069
has to say as well as downloading back

1004
00:42:06,179 --> 00:42:11,098
issues of the show by going to

1005
00:42:08,070 --> 00:42:13,019
Merseyside skeptics WK forward slash

1006
00:42:11,099 --> 00:42:16,070
podcasts or by searching for be

1007
00:42:13,019 --> 00:42:16,070
reasonable on i chose

1008
00:42:23,369 --> 00:42:30,599
here's my not spooky action at a

1009
00:42:28,030 --> 00:42:30,600
distance

1010
00:42:31,429 --> 00:42:36,059
well a cub reporter may not here on the

1011
00:42:34,230 --> 00:42:38,429
scene now with the man who has been a

1012
00:42:36,059 --> 00:42:40,139

stick in the craw of a crutch of

1013

00:42:38,429 --> 00:42:42,480

something of the authorities over the

1014

00:42:40,139 --> 00:42:43,980

years it's ken harvey he's down on

1015

00:42:42,480 --> 00:42:46,170

everything really he's best known for

1016

00:42:43,980 --> 00:42:48,090

his anti crackery work around australia

1017

00:42:46,170 --> 00:42:49,769

but a bit of an activist and you've been

1018

00:42:48,090 --> 00:42:51,720

out there on behalf of the Friends of

1019

00:42:49,769 --> 00:42:53,789

science in medicine doing a few things

1020

00:42:51,719 --> 00:42:54,839

over the last well couple of months you

1021

00:42:53,789 --> 00:42:58,259

want to fill us in on what you been up

1022

00:42:54,840 --> 00:43:00,870

to ken yeah basically we've been having

1023

00:42:58,260 --> 00:43:03,180

got chiropractors certainly the crazy

1024

00:43:00,869 --> 00:43:07,109

proportion of chiropractors that believe

1025

00:43:03,179 --> 00:43:10,049

that or or complaints in mankind are

1026

00:43:07,110 --> 00:43:12,420

related to vertebral subluxation it's

1027
00:43:10,050 --> 00:43:15,120
the original doctrine of Parma and

1028
00:43:12,420 --> 00:43:18,809
therefore they believe that cracking was

1029
00:43:15,119 --> 00:43:20,880
spline I can cure anything now just

1030
00:43:18,809 --> 00:43:22,679
before you go any further can up look

1031
00:43:20,880 --> 00:43:25,769
like I've been confused over the years

1032
00:43:22,679 --> 00:43:28,079
between a homeopathy and naturopathy and

1033
00:43:25,769 --> 00:43:30,000
all those sort of things either some

1034
00:43:28,079 --> 00:43:32,610
chiropractors that are on the level and

1035
00:43:30,000 --> 00:43:35,639
do regular what you would call science

1036
00:43:32,610 --> 00:43:38,099
space medicine oh yes indeed and there's

1037
00:43:35,639 --> 00:43:39,889
a split quite distinct flit in the

1038
00:43:38,099 --> 00:43:43,079
Australian profession at least where

1039
00:43:39,889 --> 00:43:46,170
there's two new organizations as split

1040
00:43:43,079 --> 00:43:48,389
off from the original one but two new

1041
00:43:46,170 --> 00:43:52,159
guys to your organization's are

1042
00:43:48,389 --> 00:43:54,869
basically support musculoskeletal

1043
00:43:52,159 --> 00:43:58,230
treatments only for chiropractors

1044
00:43:54,869 --> 00:44:00,539
they've come out supporting the British

1045
00:43:58,230 --> 00:44:04,500
Chiropractic Association statement that

1046
00:44:00,539 --> 00:44:07,110
says subluxation is historical myth has

1047
00:44:04,500 --> 00:44:10,409
got no place in terms of treating

1048
00:44:07,110 --> 00:44:12,090
diseases today so it's good then and in

1049
00:44:10,409 --> 00:44:14,579
terms of the university's Murdoch

1050
00:44:12,090 --> 00:44:17,160
University in Western Australia this

1051
00:44:14,579 --> 00:44:19,469
school of chiropractic again is very

1052
00:44:17,159 --> 00:44:21,960
science-based evidence-based

1053
00:44:19,469 --> 00:44:24,809
musculoskeletal treatment only and on

1054
00:44:21,960 --> 00:44:27,389
their website they're very clear we do

1055

00:44:24,809 --> 00:44:29,730
not treat her Milly infections and other

1056
00:44:27,389 --> 00:44:32,489
things of that sort of our colleagues do

1057
00:44:29,730 --> 00:44:35,639
and where does it sit statistically if

1058
00:44:32,489 --> 00:44:37,709
you go to any chiropractor or what

1059
00:44:35,639 --> 00:44:39,359
does the chances is it like 5050 how

1060
00:44:37,710 --> 00:44:43,389
they split over this issue with the

1061
00:44:39,360 --> 00:44:46,210
spine well I don't know the numbers some

1062
00:44:43,389 --> 00:44:48,608
ties regrettably from looking at

1063
00:44:46,210 --> 00:44:51,490
websites and putting in complaints I

1064
00:44:48,608 --> 00:44:54,670
still suspect that probably the majority

1065
00:44:51,489 --> 00:44:56,949
well certainly at least 5050 of

1066
00:44:54,670 --> 00:44:59,680
chiropractors are the crazy variety

1067
00:44:56,949 --> 00:45:01,960
because there's hundreds of websites out

1068
00:44:59,679 --> 00:45:04,690
there promoting chiropractic for

1069
00:45:01,960 --> 00:45:07,900

everything from curing childhood

1070

00:45:04,690 --> 00:45:09,940

diseases to preventing cesarean sections

1071

00:45:07,900 --> 00:45:12,730

in pregnant women as long as you have

1072

00:45:09,940 --> 00:45:14,409

regular chiropractic adjustments or

1073

00:45:12,730 --> 00:45:17,170

through your pregnancy there'll be less

1074

00:45:14,409 --> 00:45:19,568

cesarean sections and more rapid labor

1075

00:45:17,170 --> 00:45:21,490

etc so there's a lot of crazies out

1076

00:45:19,568 --> 00:45:23,380

there that they are the same people who

1077

00:45:21,489 --> 00:45:27,098

do the balloon up the nose trick are

1078

00:45:23,380 --> 00:45:29,470

they I haven't heard of balloons up

1079

00:45:27,099 --> 00:45:32,769

knows i think you know chiropractors may

1080

00:45:29,469 --> 00:45:35,939

like manipulating backs and necks hello

1081

00:45:32,768 --> 00:45:39,098

certainly manipulating nexus not without

1082

00:45:35,940 --> 00:45:42,039

hesitancy tropes from vertebral artery

1083

00:45:39,099 --> 00:45:44,650

two sections so i certainly would never

1084
00:45:42,039 --> 00:45:47,069
let one near my neck i think in the

1085
00:45:44,650 --> 00:45:49,240
evidence useful in terms of sore backs

1086
00:45:47,068 --> 00:45:51,429
chiropractors can be as good as physios

1087
00:45:49,239 --> 00:45:52,989
or anyone else probably not fair and

1088
00:45:51,429 --> 00:45:55,989
I've got no problem with them treasure

1089
00:45:52,989 --> 00:45:58,629
sore backs I look at Ken just on a you

1090
00:45:55,989 --> 00:46:00,250
know an awareness or is there an

1091
00:45:58,630 --> 00:46:02,318
actually a sort of clear and present

1092
00:46:00,250 --> 00:46:04,389
danger from them I guess it's the old

1093
00:46:02,318 --> 00:46:07,000
question what harm are they doing in the

1094
00:46:04,389 --> 00:46:09,909
community by misrepresenting really know

1095
00:46:07,000 --> 00:46:11,829
the way you should cure people yeah I

1096
00:46:09,909 --> 00:46:14,739
think there's two problems I mean

1097
00:46:11,829 --> 00:46:17,349
there's there's misrepresentation of

1098
00:46:14,739 --> 00:46:20,318
their ability to diagnose and cure which

1099
00:46:17,349 --> 00:46:22,930
can lead people into a series of

1100
00:46:20,318 --> 00:46:25,449
treatments would you not get it do the

1101
00:46:22,929 --> 00:46:28,358
underlying illness any good at all which

1102
00:46:25,449 --> 00:46:30,818
means that it can progress and so they

1103
00:46:28,358 --> 00:46:32,798
can delay patients can delay getting

1104
00:46:30,818 --> 00:46:34,929
more evidence-based treatment of course

1105
00:46:32,798 --> 00:46:38,048
sometimes with serious diseases that can

1106
00:46:34,929 --> 00:46:40,899
be quite a concern so one of that one of

1107
00:46:38,048 --> 00:46:45,818
the problems is is just dis laid what

1108
00:46:40,900 --> 00:46:48,700
misaid delayed proper diagnosis and

1109
00:46:45,818 --> 00:46:51,250
treatment the other concern of course is

1110
00:46:48,699 --> 00:46:53,859
that they rip people off that I mean if

1111
00:46:51,250 --> 00:46:55,599
they're signing you up for

1112

00:46:53,860 --> 00:46:58,269
that chiropractic manipulation in

1113
00:46:55,599 --> 00:47:00,429
pregnancy or again many of them come up

1114
00:46:58,269 --> 00:47:02,710
with the fact that your births terribly

1115
00:47:00,429 --> 00:47:05,199
traumatic for spine of a baby and

1116
00:47:02,710 --> 00:47:08,019
therefore all babies need regular

1117
00:47:05,199 --> 00:47:10,629
chiropractic manipulation to stop these

1118
00:47:08,019 --> 00:47:13,949
terrible subluxations in the first 12 18

1119
00:47:10,630 --> 00:47:17,800
months of life that just is ripping off

1120
00:47:13,949 --> 00:47:19,779
patients money unnecessarily and

1121
00:47:17,800 --> 00:47:23,289
occasionally and I think to be to be

1122
00:47:19,780 --> 00:47:25,570
fair it's rare chiropractic can cause

1123
00:47:23,289 --> 00:47:27,639
real problems i've mentioned strokes

1124
00:47:25,570 --> 00:47:30,670
from vertebral artery dissection where

1125
00:47:27,639 --> 00:47:34,239
necks are manipulated and the arteries

1126
00:47:30,670 --> 00:47:36,579

can be either feared web now there's

1127

00:47:34,239 --> 00:47:39,009

dispute over how common areas is

1128

00:47:36,579 --> 00:47:42,130

probably fairly rare but it certainly

1129

00:47:39,010 --> 00:47:43,690

does happen mmm okay and what do you

1130

00:47:42,130 --> 00:47:45,099

mean what can you do about this i mean

1131

00:47:43,690 --> 00:47:48,250

you know that people to ring you know

1132

00:47:45,099 --> 00:47:51,250

who to get on to about this well for

1133

00:47:48,250 --> 00:47:53,139

many years my colleagues and I have been

1134

00:47:51,250 --> 00:47:56,619

putting complaints about these things

1135

00:47:53,139 --> 00:48:00,069

five years ago chiropractors came under

1136

00:47:56,619 --> 00:48:02,230

the national regulatory system and there

1137

00:48:00,070 --> 00:48:03,700

is for the registered health

1138

00:48:02,230 --> 00:48:07,150

practitioners and and that includes

1139

00:48:03,699 --> 00:48:10,119

doctors nurses pharmacists etc and

1140

00:48:07,150 --> 00:48:13,210

chiropractors got into that system so

1141
00:48:10,119 --> 00:48:14,829
they come under the national law that

1142
00:48:13,210 --> 00:48:17,230
governs registered practitioners which

1143
00:48:14,829 --> 00:48:20,949
has got very clear advertising

1144
00:48:17,230 --> 00:48:23,110
provisions of our shop not advertised in

1145
00:48:20,949 --> 00:48:26,439
a misleading or deceptive manner thou

1146
00:48:23,110 --> 00:48:29,410
shalt not use testimonials thou shalt

1147
00:48:26,440 --> 00:48:31,720
not encourage unnecessary use of health

1148
00:48:29,409 --> 00:48:33,549
services and you can hear from what i've

1149
00:48:31,719 --> 00:48:36,759
said that we believe there's breaches of

1150
00:48:33,550 --> 00:48:39,580
all of those consistently and the first

1151
00:48:36,760 --> 00:48:41,710
two or three years of the national

1152
00:48:39,579 --> 00:48:43,569
scheme was set up the chiropractic board

1153
00:48:41,710 --> 00:48:46,059
said they wanted to educate people about

1154
00:48:43,570 --> 00:48:49,000
the responsibilities and that was their

1155
00:48:46,059 --> 00:48:52,690
approach so you'd send in a complaint

1156
00:48:49,000 --> 00:48:55,889
and you'd hear nothing more but if you

1157
00:48:52,690 --> 00:48:58,869
queried them they were educating people

1158
00:48:55,889 --> 00:49:02,409
five years has now gone on and certainly

1159
00:48:58,869 --> 00:49:05,500
over the last few years we've put in a

1160
00:49:02,409 --> 00:49:07,409
lot more complaints again the approach

1161
00:49:05,500 --> 00:49:10,030
has just been it

1162
00:49:07,409 --> 00:49:11,859
you know in more and more newsletters

1163
00:49:10,030 --> 00:49:14,860
and come out from the chiropractic board

1164
00:49:11,860 --> 00:49:17,410
guys you should be evidence-based but

1165
00:49:14,860 --> 00:49:20,890
they've been very nonspecific may have

1166
00:49:17,409 --> 00:49:22,449
not said thou shalt not do yea thou

1167
00:49:20,889 --> 00:49:24,549
shalt not manipulate children for

1168
00:49:22,449 --> 00:49:26,889
childhood illnesses they have not said

1169

00:49:24,550 --> 00:49:29,620
you should not manipulate pregnant women

1170
00:49:26,889 --> 00:49:31,420
to prevent it's a short labor or prevent

1171
00:49:29,619 --> 00:49:34,109
caesarean sections because there's no

1172
00:49:31,420 --> 00:49:37,119
evidence for it they haven't actually

1173
00:49:34,110 --> 00:49:38,950
produced need to public determinations

1174
00:49:37,119 --> 00:49:40,989
on a complaint screen and has been

1175
00:49:38,949 --> 00:49:44,409
hundreds of complaints pudding they

1176
00:49:40,989 --> 00:49:47,109
haven't actually analyzed them to say ok

1177
00:49:44,409 --> 00:49:49,210
there are consistently certain practices

1178
00:49:47,110 --> 00:49:51,340
going on but are not evidence-based and

1179
00:49:49,210 --> 00:49:53,829
we should tell people don't do it

1180
00:49:51,340 --> 00:49:58,930
they've never told people don't do it

1181
00:49:53,829 --> 00:50:00,670
and so again it's this year or in a lot

1182
00:49:58,929 --> 00:50:03,219
in middle of last year my colleagues and

1183
00:50:00,670 --> 00:50:04,690

I started talking to the actual CD

1184

00:50:03,219 --> 00:50:08,109

australian competition and consumer

1185

00:50:04,690 --> 00:50:11,550

Authority because for agency and because

1186

00:50:08,110 --> 00:50:15,039

they have got also powers under a

1187

00:50:11,550 --> 00:50:16,480

National Consumer Law to prosecute for

1188

00:50:15,039 --> 00:50:18,699

misleading and deceptive and

1189

00:50:16,480 --> 00:50:21,550

unconscionable conduct and certainly my

1190

00:50:18,699 --> 00:50:23,739

argument is that many chiropractors have

1191

00:50:21,550 --> 00:50:26,230

got unconscionable conduct and again

1192

00:50:23,739 --> 00:50:28,569

talking to vh people see first of all

1193

00:50:26,230 --> 00:50:30,909

they want to talk to the board another

1194

00:50:28,570 --> 00:50:33,460

12 months went by then we thought out

1195

00:50:30,909 --> 00:50:35,440

about 200 or more complaints possible

1196

00:50:33,460 --> 00:50:37,539

complaints we would put in 10 good

1197

00:50:35,440 --> 00:50:39,940

representative ones which we did last

1198
00:50:37,539 --> 00:50:42,670
August they were acknowledged but heard

1199
00:50:39,940 --> 00:50:45,280
nothing more and so early this year we

1200
00:50:42,670 --> 00:50:47,380
looked at what had happened to those 10

1201
00:50:45,280 --> 00:50:49,330
representative complaints which involved

1202
00:50:47,380 --> 00:50:51,640
a large number of chiropractors because

1203
00:50:49,329 --> 00:50:54,489
it was 10 clicks large number of

1204
00:50:51,639 --> 00:50:57,879
chiropractors more than 60 sort of

1205
00:50:54,489 --> 00:51:00,609
claims made we felt breached the law and

1206
00:50:57,880 --> 00:51:03,250
what we found at the ten clinics only

1207
00:51:00,610 --> 00:51:06,220
one had taken off from all the claims

1208
00:51:03,250 --> 00:51:07,960
that we felt were inappropriate another

1209
00:51:06,219 --> 00:51:10,629
one seemed to have disappeared but in

1210
00:51:07,960 --> 00:51:12,519
fact that set up a new website and

1211
00:51:10,630 --> 00:51:14,079
making the same claims it's not an

1212
00:51:12,519 --> 00:51:17,320
uncommon trick and of all the other

1213
00:51:14,079 --> 00:51:20,000
claims we judged but something like

1214
00:51:17,320 --> 00:51:23,180
sixty two percent was still non

1215
00:51:20,000 --> 00:51:26,570
so yes the car for a keyboard we believe

1216
00:51:23,179 --> 00:51:28,639
hand written how to list abra mr. alien

1217
00:51:26,570 --> 00:51:30,260
practitioners health very have written

1218
00:51:28,639 --> 00:51:32,239
to these guys saying hey here's a

1219
00:51:30,260 --> 00:51:34,250
complaint but nothing has happened there

1220
00:51:32,239 --> 00:51:38,029
not much it happened Olivia sheer we

1221
00:51:34,250 --> 00:51:40,190
went public and hit the press medical

1222
00:51:38,030 --> 00:51:42,890
journals Australia inside and do daily

1223
00:51:40,190 --> 00:51:45,800
opinion editorial in the Fairfax press

1224
00:51:42,889 --> 00:51:48,409
the age no Sydney Morning Herald and got

1225
00:51:45,800 --> 00:51:51,170
a large amount of media attention which

1226

00:51:48,409 --> 00:51:53,420
all of a sudden has stimulated the

1227
00:51:51,170 --> 00:51:54,769
chiropractic board and the Australian

1228
00:51:53,420 --> 00:51:57,320
health practitioners regulatory

1229
00:51:54,769 --> 00:51:59,750
authority to suddenly start wanting tell

1230
00:51:57,320 --> 00:52:02,690
the conferences and meetings to see what

1231
00:51:59,750 --> 00:52:04,250
the problem is so where'd the

1232
00:52:02,690 --> 00:52:05,329
politicians sit with this is this the

1233
00:52:04,250 --> 00:52:07,190
kind of thing where you want to get

1234
00:52:05,329 --> 00:52:09,199
politicians involved or is this a touchy

1235
00:52:07,190 --> 00:52:11,329
one where they feel all we been not get

1236
00:52:09,199 --> 00:52:14,239
involved in cases makes people who are

1237
00:52:11,329 --> 00:52:16,460
in favor of it not like us well indeed

1238
00:52:14,239 --> 00:52:19,099
the National Registration system was set

1239
00:52:16,460 --> 00:52:21,289
up by the council Australian

1240
00:52:19,099 --> 00:52:24,019

Government's Health Council which is all

1241

00:52:21,289 --> 00:52:26,300

state and federal territory ministers

1242

00:52:24,019 --> 00:52:28,880

which obviously is a bit of us on dog's

1243

00:52:26,300 --> 00:52:30,410

breakfast but but the system the

1244

00:52:28,880 --> 00:52:32,690

registration system and a complaint

1245

00:52:30,409 --> 00:52:36,469

system is responsible to the Australian

1246

00:52:32,690 --> 00:52:39,860

health and to treat ministers and so yes

1247

00:52:36,469 --> 00:52:42,679

we have written and many come many

1248

00:52:39,860 --> 00:52:44,780

civica sorry a civil society

1249

00:52:42,679 --> 00:52:47,029

organizations such as consumers health

1250

00:52:44,780 --> 00:52:48,800

forum choice is drunk and choose

1251

00:52:47,030 --> 00:52:51,110

association friends of science and

1252

00:52:48,800 --> 00:52:53,210

medicine have written to the co egg

1253

00:52:51,110 --> 00:52:56,599

health council were demanding that

1254

00:52:53,210 --> 00:52:59,150

something be done now again that's

1255
00:52:56,599 --> 00:53:00,889
within the last week or two but yes we

1256
00:52:59,150 --> 00:53:02,720
have taken it into the political arena

1257
00:53:00,889 --> 00:53:05,809
and it'll be interesting to see what

1258
00:53:02,719 --> 00:53:08,599
response we get yes do you think there's

1259
00:53:05,809 --> 00:53:10,789
votes in the medical reform of

1260
00:53:08,599 --> 00:53:12,619
alternative and complementary medicine

1261
00:53:10,789 --> 00:53:15,679
because if she not just watching last

1262
00:53:12,619 --> 00:53:17,239
night there's program from PBS France

1263
00:53:15,679 --> 00:53:19,489
from a comic broadcasting system in

1264
00:53:17,239 --> 00:53:22,009
America on their crazy system of

1265
00:53:19,489 --> 00:53:24,439
supplements and the dangers that that

1266
00:53:22,010 --> 00:53:28,220
lack of regulation causes I think

1267
00:53:24,440 --> 00:53:29,269
patients when they know but there is

1268
00:53:28,219 --> 00:53:31,189
both

1269
00:53:29,269 --> 00:53:33,829
medicines and like complementary

1270
00:53:31,190 --> 00:53:35,960
medicines that have never been evaluated

1271
00:53:33,829 --> 00:53:38,119
to see if they work which claims are

1272
00:53:35,960 --> 00:53:39,440
being made which lack evidence and when

1273
00:53:38,119 --> 00:53:42,529
they find that there are practitioners

1274
00:53:39,440 --> 00:53:45,920
such as chiropractors naturopaths homie

1275
00:53:42,530 --> 00:53:48,740
perhaps doing the same making claims

1276
00:53:45,920 --> 00:53:50,599
that can't be validated people get

1277
00:53:48,739 --> 00:53:53,119
pissed off I mean they're as they should

1278
00:53:50,599 --> 00:53:56,989
the problem is getting it out there

1279
00:53:53,119 --> 00:53:59,359
because most people don't go for

1280
00:53:56,989 --> 00:54:01,939
evidence based assessment of the health

1281
00:53:59,360 --> 00:54:04,400
practitioners it's over here over the

1282
00:54:01,940 --> 00:54:05,900
back fence you know I've got to say Kim

1283

00:54:04,400 --> 00:54:10,160
I'm actually completely wacky on the

1284
00:54:05,900 --> 00:54:12,590
ethereal right now no well a figure has

1285
00:54:10,159 --> 00:54:14,359
finally been taken off the market oh

1286
00:54:12,590 --> 00:54:17,360
right that's it I'm gonna charge more

1287
00:54:14,360 --> 00:54:19,760
for it but the problem again I oh that

1288
00:54:17,360 --> 00:54:21,380
is the need for consumer education which

1289
00:54:19,760 --> 00:54:23,660
again is the role of consumer

1290
00:54:21,380 --> 00:54:26,269
organizations choice consumers health

1291
00:54:23,659 --> 00:54:29,329
forum etc I mean we've got to let people

1292
00:54:26,269 --> 00:54:31,099
know and again the national press and

1293
00:54:29,329 --> 00:54:33,829
the media has got an important role here

1294
00:54:31,099 --> 00:54:35,929
we've got it and that is craziness out

1295
00:54:33,829 --> 00:54:37,940
there and again the press in the media's

1296
00:54:35,929 --> 00:54:42,589
have been pretty good on this um

1297
00:54:37,940 --> 00:54:44,990

recently they abc-tv's taken up some

1298

00:54:42,590 --> 00:54:47,269

other even channel 10 projects taking us

1299

00:54:44,989 --> 00:54:50,209

up there's been I think good media

1300

00:54:47,269 --> 00:54:52,280

attention all of which helps concentrate

1301

00:54:50,210 --> 00:54:54,650

the mind of politicians I mean my

1302

00:54:52,280 --> 00:54:56,510

experiences politicians don't give a

1303

00:54:54,650 --> 00:54:59,119

bugger about an area like paper in a

1304

00:54:56,510 --> 00:55:01,580

medical journal of Australia but if

1305

00:54:59,119 --> 00:55:04,039

consumer organizations and national

1306

00:55:01,579 --> 00:55:06,860

media starts pressuring them that's

1307

00:55:04,039 --> 00:55:08,360

voters and I'll do something about it so

1308

00:55:06,860 --> 00:55:10,490

I'm feeling confident something might

1309

00:55:08,360 --> 00:55:12,050

happen this time around ken of what i

1310

00:55:10,489 --> 00:55:13,549

find this normal use and it's certainly

1311

00:55:12,050 --> 00:55:15,289

the case i think with the

1312
00:55:13,550 --> 00:55:16,670
anti-vaccination people is it isn't so

1313
00:55:15,289 --> 00:55:18,860
much that they're suspicious at the

1314
00:55:16,670 --> 00:55:21,260
science they're suspicious of the big

1315
00:55:18,860 --> 00:55:23,150
business and the authority figures do

1316
00:55:21,260 --> 00:55:25,580
you think that's true well because

1317
00:55:23,150 --> 00:55:27,980
that's terribly ironic because yes I

1318
00:55:25,579 --> 00:55:30,980
mean clearly there is suspicion a big

1319
00:55:27,980 --> 00:55:33,230
pharma big business and there is the

1320
00:55:30,980 --> 00:55:37,420
hope that small business and little

1321
00:55:33,230 --> 00:55:38,760
farmer is is fine and green and ethical

1322
00:55:37,420 --> 00:55:41,250
there is

1323
00:55:38,760 --> 00:55:44,070
no difference if I in my experience

1324
00:55:41,250 --> 00:55:47,489
there are charlatans and rip off

1325
00:55:44,070 --> 00:55:50,340
merchants in both areas and yes you know

1326
00:55:47,489 --> 00:55:53,069
there are have been and continue to be

1327
00:55:50,340 --> 00:55:56,329
big problems with big farmer in terms of

1328
00:55:53,070 --> 00:56:00,900
them you know censoring negative results

1329
00:55:56,329 --> 00:56:03,929
misleading trials etc etc but equally

1330
00:56:00,900 --> 00:56:07,410
well in the so called complementary

1331
00:56:03,929 --> 00:56:10,199
medicine space there's the same thing

1332
00:56:07,409 --> 00:56:12,500
and with practitioners I mean well

1333
00:56:10,199 --> 00:56:14,669
certainly about the facts are

1334
00:56:12,500 --> 00:56:17,940
chiropractors for example are running at

1335
00:56:14,670 --> 00:56:20,280
three times the number of complaints per

1336
00:56:17,940 --> 00:56:23,159
thousand chiropractors for advertising

1337
00:56:20,280 --> 00:56:25,830
violations as the next communist which

1338
00:56:23,159 --> 00:56:28,500
is dentists and medicos and pharmacists

1339
00:56:25,829 --> 00:56:30,599
are way behind in terms of you know

1340

00:56:28,500 --> 00:56:32,900
complaints per thousand those

1341
00:56:30,599 --> 00:56:35,909
chiropractors are right up there right

1342
00:56:32,900 --> 00:56:38,579
leading the pack way out in front with

1343
00:56:35,909 --> 00:56:40,619
advertising complaints but people don't

1344
00:56:38,579 --> 00:56:42,299
know about it though what about the

1345
00:56:40,619 --> 00:56:45,599
Reiki touch feelers how are they going

1346
00:56:42,300 --> 00:56:48,810
oh well that's the other area of course

1347
00:56:45,599 --> 00:56:50,849
which unfortunately you know there was a

1348
00:56:48,809 --> 00:56:54,179
review by the National Health and

1349
00:56:50,849 --> 00:56:56,880
Medical Research Council into looking at

1350
00:56:54,179 --> 00:56:59,369
the evidence base of a number of

1351
00:56:56,880 --> 00:57:02,369
alternative and natural therapies you

1352
00:56:59,369 --> 00:57:05,219
know homeopathy naturopathy etc and that

1353
00:57:02,369 --> 00:57:06,809
was stimulated by the past Labor

1354
00:57:05,219 --> 00:57:09,480

government who sort of were a bit

1355

00:57:06,809 --> 00:57:12,320

concerned about the escalating private

1356

00:57:09,480 --> 00:57:15,809

health insurance rebate costs because

1357

00:57:12,320 --> 00:57:17,789

complementary therapies are covered by a

1358

00:57:15,809 --> 00:57:20,869

number of private health insurance funds

1359

00:57:17,789 --> 00:57:24,389

and government generally in my belief

1360

00:57:20,869 --> 00:57:26,069

provide some rebates and encourages

1361

00:57:24,389 --> 00:57:28,949

people there was a look at the evidence

1362

00:57:26,070 --> 00:57:32,780

base and have Yaffe opposes the first

1363

00:57:28,949 --> 00:57:35,489

cab off the rank no evidence clearly for

1364

00:57:32,780 --> 00:57:36,690

homeopathy and you did it turned out

1365

00:57:35,489 --> 00:57:39,329

there's no evidence for any of the

1366

00:57:36,690 --> 00:57:41,490

others either at least on the review is

1367

00:57:39,329 --> 00:57:42,569

done by the natural health and sorry the

1368

00:57:41,489 --> 00:57:45,269

National Health and Medical Research

1369
00:57:42,570 --> 00:57:48,570
Council that should have led immediately

1370
00:57:45,269 --> 00:57:50,750
to a decision to put the kibosh on the

1371
00:57:48,570 --> 00:57:52,480
rebate for not evidence-based therapies

1372
00:57:50,750 --> 00:57:54,909
but this is where

1373
00:57:52,480 --> 00:57:57,130
again politics comes in that was set up

1374
00:57:54,909 --> 00:57:59,409
by the previous Labor government the

1375
00:57:57,130 --> 00:58:01,990
current Liberal government minister

1376
00:57:59,409 --> 00:58:04,719
wasn't too sure about this inquiry set

1377
00:58:01,989 --> 00:58:06,159
up by a labor Health Minister by

1378
00:58:04,719 --> 00:58:09,250
definition don't want anything to do

1379
00:58:06,159 --> 00:58:11,230
with that and hasn't actually followed

1380
00:58:09,250 --> 00:58:13,539
through it's all too difficult to

1381
00:58:11,230 --> 00:58:15,130
actually stop rebate surprise health

1382
00:58:13,539 --> 00:58:17,619
insurance for non evidence-based

1383
00:58:15,130 --> 00:58:20,380
therapies according to the minister

1384
00:58:17,619 --> 00:58:23,400
Susan lay now get on my own belief is

1385
00:58:20,380 --> 00:58:26,230
that's because the industry pressures

1386
00:58:23,400 --> 00:58:28,180
severe on her too so say let's keep this

1387
00:58:26,230 --> 00:58:30,280
going and let's keep us in the manner in

1388
00:58:28,179 --> 00:58:32,649
which were accustomed so you know

1389
00:58:30,280 --> 00:58:35,800
evidence is one thing regrettably action

1390
00:58:32,650 --> 00:58:37,210
as a nun so what can we all do about it

1391
00:58:35,800 --> 00:58:38,680
how can we help out with this if the

1392
00:58:37,210 --> 00:58:40,030
skeptic out there is listening they got

1393
00:58:38,679 --> 00:58:41,589
their blood boiling and they want to do

1394
00:58:40,030 --> 00:58:44,440
something which they do can you're the

1395
00:58:41,590 --> 00:58:46,510
expert on doing something well I think

1396
00:58:44,440 --> 00:58:48,730
what we've learnt is that it is

1397

00:58:46,510 --> 00:58:51,460
worthwhile putting in complaints it can

1398
00:58:48,730 --> 00:58:54,070
be an unrewarding experience you know

1399
00:58:51,460 --> 00:58:58,000
you may never hear what happens but they

1400
00:58:54,070 --> 00:59:02,170
do get logged and people do use them to

1401
00:58:58,000 --> 00:59:04,929
bring pressure to bear and so yes my

1402
00:59:02,170 --> 00:59:07,690
advice is if you see something fishy or

1403
00:59:04,929 --> 00:59:09,549
it's too good to be true then put in a

1404
00:59:07,690 --> 00:59:11,470
complaint if you don't know how to put

1405
00:59:09,550 --> 00:59:13,060
in a complaint been getting touch with

1406
00:59:11,469 --> 00:59:16,239
you know skeptics Australia friends of

1407
00:59:13,059 --> 00:59:18,489
science and medicine um email at your

1408
00:59:16,239 --> 00:59:21,099
concerns and we will put in a complaint

1409
00:59:18,489 --> 00:59:23,439
or will help you to put in one we've got

1410
00:59:21,099 --> 00:59:25,719
to get people to actually be aware in

1411
00:59:23,440 --> 00:59:29,230

their rights to question and be

1412

00:59:25,719 --> 00:59:31,329

skeptical and be cynical and pass that

1413

00:59:29,230 --> 00:59:33,969

on to the regulatory authorities because

1414

00:59:31,329 --> 00:59:36,670

if people just don't do anything then

1415

00:59:33,969 --> 00:59:39,219

the regulatory authorities say oh well

1416

00:59:36,670 --> 00:59:40,780

no complaints everything's fine they

1417

00:59:39,219 --> 00:59:42,309

certainly don't do any monitoring

1418

00:59:40,780 --> 00:59:46,450

themselves well it would be very easy

1419

00:59:42,309 --> 00:59:49,358

for them to do so so yeah be an activist

1420

00:59:46,449 --> 00:59:50,799

putting complaints get in touch with

1421

00:59:49,358 --> 00:59:54,039

friends of science and medicine

1422

00:59:50,800 --> 00:59:56,710

Australian skeptics etc and we can help

1423

00:59:54,039 --> 00:59:58,539

great Ken and what what is the best

1424

00:59:56,710 --> 01:00:01,059

website to get to find out more about

1425

00:59:58,539 --> 01:00:02,440

the Friends of science and medicine well

1426
01:00:01,059 --> 01:00:03,969
again if you google all friends of

1427
01:00:02,440 --> 01:00:06,010
science and medicine

1428
01:00:03,969 --> 01:00:09,429
you will get there if you google

1429
01:00:06,010 --> 01:00:12,160
Australian skeptics you'll get some good

1430
01:00:09,429 --> 01:00:14,019
contact details great thank you dr. ken

1431
01:00:12,159 --> 01:00:15,598
harvey and rock on get out there and

1432
01:00:14,019 --> 01:00:19,530
complain about something today people

1433
01:00:15,599 --> 01:00:19,530
good on you okay bye

1434
01:00:37,099 --> 01:00:41,489
astronomy cast it takes a fact space

1435
01:00:39,449 --> 01:00:43,230
journey through the cosmos as it offers

1436
01:00:41,489 --> 01:00:45,899
listeners weekly discussions on

1437
01:00:43,230 --> 01:00:48,809
astronomical topics ranging from planets

1438
01:00:45,900 --> 01:00:51,269
to cosmology hosted by Fraser Cain of

1439
01:00:48,809 --> 01:00:52,139
Universe Today and myself dr. Pamela gay

1440
01:00:51,269 --> 01:00:54,809
of southern illinois university

1441
01:00:52,139 --> 01:00:56,670
edwardsville this show brings the

1442
01:00:54,809 --> 01:00:59,099
questions of an avid astronomy lover

1443
01:00:56,670 --> 01:01:01,200
directly to an astronomer together

1444
01:00:59,099 --> 01:01:02,730
Fraser and I explore what is known and

1445
01:01:01,199 --> 01:01:05,489
being discovered about the universe

1446
01:01:02,730 --> 01:01:07,590
around us join us each week as we take a

1447
01:01:05,489 --> 01:01:11,118
fact space journey through the cosmos at

1448
01:01:07,590 --> 01:01:11,119
astronomy cast calm

1449
01:01:24,260 --> 01:01:28,470
thank you for listening to the skeptic

1450
01:01:26,699 --> 01:01:30,568
zone and for people who have been

1451
01:01:28,469 --> 01:01:34,318
listening to the skeptic zone for many

1452
01:01:30,568 --> 01:01:37,980
years now he'll of course be well aware

1453
01:01:34,318 --> 01:01:41,338
of Fred the cat well I am very sorry to

1454

01:01:37,980 --> 01:01:43,019
say that Fred died just after the last

1455
01:01:41,338 --> 01:01:46,108
episode of the skeptic zone went out to

1456
01:01:43,018 --> 01:01:49,368
where he died in his sleep here at home

1457
01:01:46,108 --> 01:01:53,159
he was perfectly happy the day before

1458
01:01:49,369 --> 01:01:56,640
doing his normal things sleeping a lot

1459
01:01:53,159 --> 01:02:00,389
looking for water food generally being a

1460
01:01:56,639 --> 01:02:03,629
good cat fred was a found kitten my

1461
01:02:00,389 --> 01:02:07,588
sister found Fred on a fence post in the

1462
01:02:03,630 --> 01:02:10,500
year 2000 poor little lost half starved

1463
01:02:07,588 --> 01:02:13,639
kitten well that's how he ended up here

1464
01:02:10,500 --> 01:02:16,920
he was good company he had two pretty

1465
01:02:13,639 --> 01:02:20,368
major events happen in his life the

1466
01:02:16,920 --> 01:02:23,778
first one was that about all six years

1467
01:02:20,369 --> 01:02:26,490
ago he was attacked by a rottweiler and

1468
01:02:23,778 --> 01:02:29,639

poor old Fred had big puncture wounds in

1469

01:02:26,489 --> 01:02:32,068

him horrible experience for everybody

1470

01:02:29,639 --> 01:02:34,768

he'd recovered good old Fred he did

1471

01:02:32,068 --> 01:02:37,650

recover no broken bones luckily the

1472

01:02:34,768 --> 01:02:40,588

other one was that about dual three

1473

01:02:37,650 --> 01:02:43,588

years ago he developed a giant tumor in

1474

01:02:40,588 --> 01:02:46,889

his back it was massive the vet was

1475

01:02:43,588 --> 01:02:50,338

quite surprised and Fred had to go under

1476

01:02:46,889 --> 01:02:53,190

go to operations to fix all that up but

1477

01:02:50,338 --> 01:02:55,588

survived it he did very sorry to not

1478

01:02:53,190 --> 01:02:58,108

have Fred here at my feet wise I record

1479

01:02:55,588 --> 01:02:59,759

this very sorry not to have a dell and

1480

01:02:58,108 --> 01:03:02,250

some of you may remember Adele who was

1481

01:02:59,759 --> 01:03:06,269

the other cat she died about three years

1482

01:03:02,250 --> 01:03:08,518

ago rest assured for the most part Fred

1483
01:03:06,268 --> 01:03:11,278
had a pretty damn good life and a long

1484
01:03:08,518 --> 01:03:13,679
life too so Fred thanks for all the

1485
01:03:11,278 --> 01:03:17,880
company and thanks for always being

1486
01:03:13,679 --> 01:03:19,739
there and we will miss you Oh Deary me

1487
01:03:17,880 --> 01:03:21,720
anyway for this week this is Richard

1488
01:03:19,739 --> 01:03:23,750
Saunders signing off from Sydney

1489
01:03:21,719 --> 01:03:23,750
Australia

1490
01:03:26,010 --> 01:03:32,200
you've been listening to the skeptics

1491
01:03:28,449 --> 01:03:35,109
own podcast visit our website at wwc a

1492
01:03:32,199 --> 01:03:38,559
petting zoo TV for contacts an archive

1493
01:03:35,110 --> 01:03:41,260
of all episodes since 2008 and our

1494
01:03:38,559 --> 01:03:43,170
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01:03:43,170 --> 01:03:49,990
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01:03:46,360 --> 01:03:52,150
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1498
01:03:49,989 --> 01:03:55,319
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1499
01:03:52,150 --> 01:03:58,090
paypal for as little as 99 cents a week

1500
01:03:55,320 --> 01:03:59,740
the skeptic zone is an independent

1501
01:03:58,090 --> 01:04:02,170
production the views and opinions

1502
01:03:59,739 --> 01:04:04,209
expressed on the skeptic zone and not

1503
01:04:02,170 --> 01:04:09,480
necessarily those of Australian skepta

1504
01:04:04,210 --> 01:04:09,480
tea or any other skeptical organization