

1
00:00:06,139 --> 00:00:13,689
welcome to the skeptic zone the podcast

2
00:00:09,109 --> 00:00:13,689
from Australia for science and reason

3
00:00:22,199 --> 00:00:28,210
hello and welcome to the skeptic zone

4
00:00:24,730 --> 00:00:30,730
episode number 308 for the 14th of sep

5
00:00:28,210 --> 00:00:34,060
tember 2014 Richard Saunders here with

6
00:00:30,730 --> 00:00:36,130
you from South Australia the wonderful

7
00:00:34,060 --> 00:00:39,460
state of South Australia and I met

8
00:00:36,130 --> 00:00:41,440
Malala Motorsport Park you can probably

9
00:00:39,460 --> 00:00:43,000
hear some of the cars zooming around the

10
00:00:41,439 --> 00:00:45,429
track in the background I'm here today

11
00:00:43,000 --> 00:00:48,759
as I've been for last few days to do

12
00:00:45,429 --> 00:00:51,519
some work in car video type work which I

13
00:00:48,759 --> 00:00:55,268
do from time to time and that's a lot of

14
00:00:51,520 --> 00:00:59,620
fun I've snuck away found a moment to

15
00:00:55,268 --> 00:01:01,329
sneak our snuck a snack away to record

16
00:00:59,619 --> 00:01:03,459
the introduction for the skeptic zone

17
00:01:01,329 --> 00:01:05,230
well what's coming up this week we're

18
00:01:03,460 --> 00:01:09,129
going to kick off with them an

19
00:01:05,230 --> 00:01:11,640
interesting report written by Mick vague

20
00:01:09,129 --> 00:01:14,949
which appeared on the conversation calm

21
00:01:11,640 --> 00:01:17,560
inspired one possibly inspired by the

22
00:01:14,950 --> 00:01:20,620
latest issue of the skeptic magazine the

23
00:01:17,560 --> 00:01:23,469
journal from Australian skeptics and in

24
00:01:20,620 --> 00:01:28,320
the latest issue there's an report and

25
00:01:23,469 --> 00:01:32,019
item about pharmacies pharmacies and

26
00:01:28,319 --> 00:01:35,109
their unfortunate habit in this country

27
00:01:32,019 --> 00:01:38,949
at least of selling what we consider to

28
00:01:35,109 --> 00:01:41,890
be quackery homeopathy iridology ear

29

00:01:38,950 --> 00:01:43,990
candles and that sort of thing a very

30
00:01:41,890 --> 00:01:45,689
interesting piece by macfag coming up at

31
00:01:43,989 --> 00:01:48,489
the top of the show followed by

32
00:01:45,688 --> 00:01:50,468
something I think may have appeared on

33
00:01:48,489 --> 00:01:52,810
the skeptic zone before over the years

34
00:01:50,468 --> 00:01:54,339
I'll have to check into that this is an

35
00:01:52,810 --> 00:01:56,259
open letter to the pharmacies of

36
00:01:54,340 --> 00:01:59,460
Australia that I wrote some years ago on

37
00:01:56,259 --> 00:02:02,769
behalf of Australian skeptics basically

38
00:01:59,459 --> 00:02:05,379
appealing to them to stop selling ear

39
00:02:02,769 --> 00:02:09,008
candles especially and other quackery

40
00:02:05,379 --> 00:02:11,019
but especially ear candles now good old

41
00:02:09,008 --> 00:02:13,269
ear candles I think the very first dr.

42
00:02:11,020 --> 00:02:16,570
Richie reports on the skeptic zone six

43
00:02:13,270 --> 00:02:18,610

years ago was about ear candles of all

44

00:02:16,569 --> 00:02:20,769

the bizarre quackery I've seen over the

45

00:02:18,610 --> 00:02:24,040

years folks sticking a candle in your

46

00:02:20,770 --> 00:02:28,360

ear and lighting the other end hello

47

00:02:24,039 --> 00:02:30,579

there's a fly I think of your google Mel

48

00:02:28,360 --> 00:02:32,860

allow you'll discover it sir

49

00:02:30,580 --> 00:02:34,420

a very interesting location near

50

00:02:32,860 --> 00:02:36,280

Adelaide in South Australia but I've

51

00:02:34,419 --> 00:02:40,479

been told the Flyers here can get pretty

52

00:02:36,280 --> 00:02:43,150

bad pretty bad anyway back to the show

53

00:02:40,479 --> 00:02:45,909

after that it's evidence please with Joe

54

00:02:43,150 --> 00:02:50,490

alabaster and Joe is going to be looking

55

00:02:45,909 --> 00:02:53,919

into our vitamin K and why some people

56

00:02:50,490 --> 00:02:55,990

don't take advantage of vitamin K I

57

00:02:53,919 --> 00:02:57,549

don't know very much about vitamin K

58
00:02:55,990 --> 00:02:59,830
myself so I'll be very interested to

59
00:02:57,550 --> 00:03:03,040
hear Joe alabaster's evidence please

60
00:02:59,830 --> 00:03:04,450
this week after that it's a week in

61
00:03:03,039 --> 00:03:07,359
science from our friends at the Royal

62
00:03:04,449 --> 00:03:09,189
Institution of Australia that's only

63
00:03:07,360 --> 00:03:11,709
about an hour away from where i am in

64
00:03:09,189 --> 00:03:16,930
right now a Mel Allen I haven't got time

65
00:03:11,709 --> 00:03:22,240
to visit ah oh well shall we fly out up

66
00:03:16,930 --> 00:03:24,879
damn fly there we go and i'm using a car

67
00:03:22,240 --> 00:03:26,800
as a recording booth today and then ran

68
00:03:24,879 --> 00:03:28,780
off the show it's Maynard's spooky

69
00:03:26,800 --> 00:03:30,160
action more Maynard from skeptics in the

70
00:03:28,780 --> 00:03:31,800
pub the other week here in Sydney

71
00:03:30,159 --> 00:03:34,659
Maynard catches up with our dear friend

72
00:03:31,800 --> 00:03:36,519
Johanne been amoo Joe and Ben amoo who

73
00:03:34,659 --> 00:03:39,159
did some reports on the skeptic zone a

74
00:03:36,519 --> 00:03:42,069
little while ago joannes off to live in

75
00:03:39,159 --> 00:03:44,560
Melbourne we wish her every luck every

76
00:03:42,069 --> 00:03:48,099
success of course but he'll be chatting

77
00:03:44,560 --> 00:03:50,259
to Joe about her opinions on Chinese

78
00:03:48,099 --> 00:03:52,989
medicine and other things and then a

79
00:03:50,259 --> 00:03:56,019
chat with an old friend of mine Gary

80
00:03:52,989 --> 00:03:57,430
Dalrymple who runs a free Connor free

81
00:03:56,019 --> 00:04:00,250
sort of science fiction fantasy

82
00:03:57,430 --> 00:04:02,969
convention for writers and authors in

83
00:04:00,250 --> 00:04:05,739
Sydney and more information about that

84
00:04:02,969 --> 00:04:07,539
so a little bit of an abbreviated show

85
00:04:05,739 --> 00:04:09,909
this week because I'm on the road I'm

86

00:04:07,539 --> 00:04:12,519
pretty busy making sure all the racing

87
00:04:09,909 --> 00:04:16,509
cars have cameras whirring away inside

88
00:04:12,519 --> 00:04:18,548
getting some work done so while I have a

89
00:04:16,509 --> 00:04:20,949
look around me now maybe have a nice

90
00:04:18,548 --> 00:04:25,620
cool drink of water because it's a hot

91
00:04:20,949 --> 00:04:25,620
day I hope you enjoy the skeptic go

92
00:04:50,560 --> 00:04:57,980
as published on the conversation calm on

93
00:04:54,079 --> 00:05:01,729
the top of September 2014 by Michael bag

94
00:04:57,980 --> 00:05:04,340
our pharmacists as trustworthy as they'd

95
00:05:01,730 --> 00:05:06,530
like us to believe pharmacists are

96
00:05:04,339 --> 00:05:08,599
continuously held up as among the most

97
00:05:06,529 --> 00:05:10,969
respected and trusted of professionals

98
00:05:08,600 --> 00:05:12,590
they fulfill an important role within

99
00:05:10,970 --> 00:05:15,530
the Health Professions of being the

100
00:05:12,589 --> 00:05:18,079

gatekeepers of medication dispensing and

101

00:05:15,529 --> 00:05:21,169

the link between the community and their

102

00:05:18,079 --> 00:05:23,000

medication use for more than 100 years

103

00:05:21,170 --> 00:05:25,069

there has been a very clear and ethical

104

00:05:23,000 --> 00:05:27,560

distinction between doctors who

105

00:05:25,069 --> 00:05:30,219

prescribe medications and pharmacists

106

00:05:27,560 --> 00:05:32,600

who sell them that way the argument goes

107

00:05:30,220 --> 00:05:34,930

doctors have no direct financial

108

00:05:32,600 --> 00:05:37,010

interest in the drugs they prescribe and

109

00:05:34,930 --> 00:05:39,079

pharmacists have no direct financial

110

00:05:37,009 --> 00:05:41,329

interest in recommending any of the

111

00:05:39,079 --> 00:05:44,000

drugs on their shelves directly to

112

00:05:41,329 --> 00:05:47,000

patients so far so good there has been a

113

00:05:44,000 --> 00:05:49,129

bit of a role creep over the years with

114

00:05:47,000 --> 00:05:51,680

calls from some doctors to be allowed to

115
00:05:49,129 --> 00:05:54,350
sell their own concoctions directly to

116
00:05:51,680 --> 00:05:57,139
their patients as well as a much more

117
00:05:54,350 --> 00:05:59,689
concerted push by pharmacists to play a

118
00:05:57,139 --> 00:06:01,370
bigger role in health care including

119
00:05:59,689 --> 00:06:03,769
providing immunizations and health

120
00:06:01,370 --> 00:06:06,379
checks direct to consumers naturally

121
00:06:03,769 --> 00:06:09,019
this is of concern to GPS as such

122
00:06:06,379 --> 00:06:11,659
proposals have the potential to fragment

123
00:06:09,019 --> 00:06:13,339
primary health care even further not to

124
00:06:11,660 --> 00:06:15,470
mention taking the critical role of

125
00:06:13,339 --> 00:06:17,109
diagnosis putting it into the hands of

126
00:06:15,470 --> 00:06:20,030
those who are under qualified

127
00:06:17,110 --> 00:06:22,520
underinsured and under supported to

128
00:06:20,029 --> 00:06:24,619
handle it what concerns me particularly

129
00:06:22,519 --> 00:06:27,709
is not so much that these health checks

130
00:06:24,620 --> 00:06:29,629
will take away work from GPS if anything

131
00:06:27,709 --> 00:06:32,299
I suspect that will increase GPS

132
00:06:29,629 --> 00:06:34,540
workloads sorting out the advice already

133
00:06:32,300 --> 00:06:37,280
given to patients by one of EGP

134
00:06:34,540 --> 00:06:40,069
enthusiasts like pharmacists and their

135
00:06:37,279 --> 00:06:42,079
associated naturopaths this month

136
00:06:40,069 --> 00:06:44,750
skeptical magazine from Australian

137
00:06:42,079 --> 00:06:47,060
skeptics highlights the problems quite

138
00:06:44,750 --> 00:06:48,800
well I think it's time for pharmacists

139
00:06:47,060 --> 00:06:51,228
to decide if they want to keep the trust

140
00:06:48,800 --> 00:06:53,810
placed in them by the community to give

141
00:06:51,228 --> 00:06:56,089
sound advice if they want to remain at

142
00:06:53,810 --> 00:06:58,639
trusted source of advice they need to

143

00:06:56,089 --> 00:07:01,729
lift their game and get all the ear

144
00:06:58,639 --> 00:07:04,430
candles homeopathy magnets herbs and

145
00:07:01,730 --> 00:07:06,800
supplements out of their shops along

146
00:07:04,430 --> 00:07:09,050
with the euro-dollar jests and their

147
00:07:06,800 --> 00:07:11,750
other fairground quote health

148
00:07:09,050 --> 00:07:13,759
professionals end quote in short they

149
00:07:11,750 --> 00:07:16,550
need to start acting like they deserve

150
00:07:13,759 --> 00:07:18,439
the trust and respect that has accorded

151
00:07:16,550 --> 00:07:20,900
them we have heard nothing from the

152
00:07:18,439 --> 00:07:23,899
training and CPD requirements for

153
00:07:20,899 --> 00:07:26,509
pharmacists who want to diagnose and

154
00:07:23,899 --> 00:07:28,879
treat patients let alone how they will

155
00:07:26,509 --> 00:07:32,149
be insured I would want to see all this

156
00:07:28,879 --> 00:07:34,459
detail before I let my crew p baby or

157
00:07:32,149 --> 00:07:37,099

breathless grandmother within a bulls

158

00:07:34,459 --> 00:07:39,469

roar of a pharmacist diagnosis skills

159

00:07:37,100 --> 00:07:41,990

the protectionism involved in a business

160

00:07:39,470 --> 00:07:44,360

of running pharmacies is breathtaking

161

00:07:41,990 --> 00:07:46,250

like dentists only pharmacists are

162

00:07:44,360 --> 00:07:49,340

legally allowed to profit from running

163

00:07:46,250 --> 00:07:52,069

pharmacies and they have defended this

164

00:07:49,339 --> 00:07:54,649

with all the bitterness and vitriol you

165

00:07:52,069 --> 00:07:56,329

might expect from a group who know they

166

00:07:54,649 --> 00:07:58,639

are on to a good thing Health Minister

167

00:07:56,329 --> 00:08:01,009

Peter Dutton seems all for the

168

00:07:58,639 --> 00:08:04,009

pharmacists ambitions and has been on

169

00:08:01,009 --> 00:08:06,439

the medical trail vowing not to whine

170

00:08:04,009 --> 00:08:08,300

back they're protected status so it

171

00:08:06,439 --> 00:08:11,060

seems the pharmacist will have all they

172
00:08:08,300 --> 00:08:13,038
want I wonder if they deserve it I hope

173
00:08:11,060 --> 00:08:15,470
they take the opportunity to lift their

174
00:08:13,038 --> 00:08:18,050
game as a profession and use their

175
00:08:15,470 --> 00:08:20,780
protected status to raise standards not

176
00:08:18,050 --> 00:08:23,240
profits a good place to start would be

177
00:08:20,779 --> 00:08:25,279
to stop advertising and selling shonky

178
00:08:23,240 --> 00:08:27,228
devices and products that would be

179
00:08:25,279 --> 00:08:30,109
considered fraudulent in any other

180
00:08:27,228 --> 00:08:34,838
context too hard then get out of the

181
00:08:30,110 --> 00:08:34,839
expanded responsibility game for good

182
00:08:36,419 --> 00:08:42,629
from Australian skeptics an open letter

183
00:08:39,639 --> 00:08:44,590
to the pharmacist of Australia

184
00:08:42,629 --> 00:08:47,169
Australians trust pharmacies and

185
00:08:44,590 --> 00:08:49,570
chemists shops as pharmacists you play

186
00:08:47,169 --> 00:08:51,789
an important role in the health of the

187
00:08:49,570 --> 00:08:54,400
Australian public by functioning as a

188
00:08:51,789 --> 00:08:57,189
conduit between doctors and prescription

189
00:08:54,399 --> 00:08:59,620
or pharmaceutical drugs you also have a

190
00:08:57,190 --> 00:09:01,570
respected role as a first resource for

191
00:08:59,620 --> 00:09:03,879
medical advice for many people in our

192
00:09:01,570 --> 00:09:07,600
community we are all familiar with the

193
00:09:03,879 --> 00:09:10,120
slogan ask your pharmacist when we asked

194
00:09:07,600 --> 00:09:12,519
our pharmacist what kind of answers do

195
00:09:10,120 --> 00:09:14,799
we want not quite products like ear

196
00:09:12,519 --> 00:09:17,679
candles that do nothing except pose a

197
00:09:14,799 --> 00:09:20,559
health hazard we now ask our Australian

198
00:09:17,679 --> 00:09:22,689
pharmacist what standards should you set

199
00:09:20,559 --> 00:09:24,489
for yourselves you sell a growing number

200

00:09:22,690 --> 00:09:26,620
of products for which there is very

201
00:09:24,490 --> 00:09:29,470
little or no scientific evidence of

202
00:09:26,620 --> 00:09:31,950
efficacy calling them quote alternative

203
00:09:29,470 --> 00:09:34,300
end quote does not make them work

204
00:09:31,950 --> 00:09:36,460
examples include homeopathic

205
00:09:34,299 --> 00:09:39,609
preparations magnetic pain relief

206
00:09:36,460 --> 00:09:43,540
devices detox programs dodgy weight loss

207
00:09:39,610 --> 00:09:46,269
products and ear candles such products

208
00:09:43,539 --> 00:09:48,309
commonly appear in the quote natural

209
00:09:46,269 --> 00:09:50,259
medicine and quote section of pharmacies

210
00:09:48,309 --> 00:09:52,750
but as sometimes displayed alongside

211
00:09:50,259 --> 00:09:55,840
real medicines whose benefits are

212
00:09:52,750 --> 00:09:58,330
scientifically proven ear candles are of

213
00:09:55,840 --> 00:10:00,460
particular concern there are reports of

214
00:09:58,330 --> 00:10:03,009

serious injuries from them including

215

00:10:00,460 --> 00:10:05,980

temporary hearing loss burns ear canals

216

00:10:03,009 --> 00:10:08,710

blocked by dripping wax and punctured

217

00:10:05,980 --> 00:10:10,990

eardrums Health Canada has banned them

218

00:10:08,710 --> 00:10:12,700

in Canada even the first professor of

219

00:10:10,990 --> 00:10:15,460

alternative and complementary medicine

220

00:10:12,700 --> 00:10:17,879

at Exeter University at said Ernst calls

221

00:10:15,460 --> 00:10:20,259

for them to be banned despite this many

222

00:10:17,879 --> 00:10:22,299

Australian pharmacies are selling them

223

00:10:20,259 --> 00:10:25,149

what next we start selling cigarettes

224

00:10:22,299 --> 00:10:26,490

like supermarkets who you do not want to

225

00:10:25,149 --> 00:10:28,959

be allowed to sell pharmaceuticals

226

00:10:26,490 --> 00:10:31,240

because they do not have qualified staff

227

00:10:28,960 --> 00:10:34,450

what standards do you set for yourself

228

00:10:31,240 --> 00:10:36,820

and your staff we see a growing trend of

229
00:10:34,450 --> 00:10:39,280
so-called quote practitioners end quote

230
00:10:36,820 --> 00:10:42,430
with little or no scientific training

231
00:10:39,279 --> 00:10:45,189
being brought in as quote consultants

232
00:10:42,429 --> 00:10:48,579
including iridology homeopaths and

233
00:10:45,190 --> 00:10:50,680
naturopaths iridology is a discredited

234
00:10:48,580 --> 00:10:53,230
way of diagnosing the dysfunction of

235
00:10:50,679 --> 00:10:55,870
internal organs via markings on the iris

236
00:10:53,230 --> 00:10:57,759
there is no evidence that it works but

237
00:10:55,870 --> 00:11:00,639
some pharmacies promote the fact that

238
00:10:57,759 --> 00:11:03,730
customers can get quote readings and

239
00:11:00,639 --> 00:11:06,429
quote in their stores your customers

240
00:11:03,730 --> 00:11:08,289
rely on you and anyone in a professional

241
00:11:06,429 --> 00:11:11,620
capacity within your store to provide

242
00:11:08,289 --> 00:11:13,208
sound medical advice and products we

243
00:11:11,620 --> 00:11:15,789
fear in some cases they are receiving

244
00:11:13,208 --> 00:11:18,239
what amounts to little more than magical

245
00:11:15,789 --> 00:11:20,949
sugar pills and bad health advice

246
00:11:18,240 --> 00:11:22,810
pharmacies need to make a profit but

247
00:11:20,950 --> 00:11:25,899
this should not be done through quack

248
00:11:22,809 --> 00:11:27,939
products and bad advice to regain the

249
00:11:25,899 --> 00:11:29,799
status of pharmacy should have a place

250
00:11:27,940 --> 00:11:31,510
to get good sound advice and effective

251
00:11:29,799 --> 00:11:34,179
medicine supported by science and

252
00:11:31,509 --> 00:11:36,879
clinical evidence we implore our

253
00:11:34,179 --> 00:11:41,079
pharmacies to stick to worthy products

254
00:11:36,879 --> 00:11:43,559
sold by knowledgeable staff Australian

255
00:11:41,080 --> 00:11:43,560
skeptics

256
00:11:53,110 --> 00:11:57,950
did you see that UFO sighting that made

257

00:11:55,700 --> 00:11:59,660
the news what did that latest study

258
00:11:57,950 --> 00:12:02,090
about alternative treatments really say

259
00:11:59,659 --> 00:12:05,029
is this photo making the rounds real or

260
00:12:02,090 --> 00:12:06,920
hoax doubtful news is a unique website

261
00:12:05,029 --> 00:12:09,049
featuring news about pseudoscience the

262
00:12:06,919 --> 00:12:10,779
paranormal anomalies and questionable

263
00:12:09,049 --> 00:12:13,729
claims framed with the skeptical view

264
00:12:10,779 --> 00:12:15,490
come visit doubtful newscom every day

265
00:12:13,730 --> 00:12:19,220
for news about cryptozoology

266
00:12:15,490 --> 00:12:22,129
conspiracies shams scams and more follow

267
00:12:19,220 --> 00:12:23,690
us on twitter at doubtful news critical

268
00:12:22,129 --> 00:12:25,970
thinking is essential in assessing

269
00:12:23,690 --> 00:12:29,800
today's news duffel news helps you

270
00:12:25,970 --> 00:12:29,800
decide can you really believe this stuff

271
00:12:36,570 --> 00:12:44,330

what we want is some more evidence piece

272

00:12:40,220 --> 00:12:44,330
is Joe alabaster

273

00:12:48,429 --> 00:12:57,039
hello this is Joe alabasta preliminary

274

00:12:54,669 --> 00:12:59,189
research presented this year's Council

275

00:12:57,039 --> 00:13:01,929
of State and territorial epidemiologists

276

00:12:59,190 --> 00:13:04,060
conference in the US which looked at the

277

00:13:01,929 --> 00:13:06,219
rising issue of parents refusing vitamin

278

00:13:04,059 --> 00:13:08,708
K shots for their newborns has shown the

279

00:13:06,220 --> 00:13:12,879
correlation between vitamin K refusal

280

00:13:08,708 --> 00:13:15,039
and vaccine refusal vitamin K is needed

281

00:13:12,879 --> 00:13:16,778
by humans to allow complete synthesis of

282

00:13:15,039 --> 00:13:19,480
proteins that we use for blood

283

00:13:16,778 --> 00:13:21,399
coagulation without it we're at risk of

284

00:13:19,480 --> 00:13:23,050
blood clotting issues ranging from

285

00:13:21,399 --> 00:13:26,679
bruising to severe bleeding and

286
00:13:23,049 --> 00:13:28,240
hemorrhagic disease healthy adults and

287
00:13:26,679 --> 00:13:31,120
older children are able to maintain

288
00:13:28,240 --> 00:13:33,459
adequate vitamin K levels in part via

289
00:13:31,120 --> 00:13:35,769
their diet but predominantly because

290
00:13:33,458 --> 00:13:38,949
vitamin K is produced by bacteria in the

291
00:13:35,769 --> 00:13:41,649
gut newborn babies however are born with

292
00:13:38,950 --> 00:13:43,028
a sterile gut the gut biome is not yet

293
00:13:41,649 --> 00:13:46,480
in place to assist in maintaining

294
00:13:43,028 --> 00:13:47,980
vitamin K levels vitamin K is not

295
00:13:46,480 --> 00:13:50,289
sufficiently present in the baby's

296
00:13:47,980 --> 00:13:53,139
system as it has trouble passing through

297
00:13:50,289 --> 00:13:55,120
the placenta in utero as such babies

298
00:13:53,139 --> 00:13:58,809
have very little vitamin K in their

299
00:13:55,120 --> 00:14:01,060
bodies at Birth there is very little

300
00:13:58,809 --> 00:14:02,949
vitamin K and breast milk and it can

301
00:14:01,059 --> 00:14:05,229
take breastfed babies several weeks to

302
00:14:02,950 --> 00:14:08,740
establish and maintain a gut biome which

303
00:14:05,230 --> 00:14:10,839
produces sufficient vitamin K modern

304
00:14:08,740 --> 00:14:13,360
baby formulas are fortified with vitamin

305
00:14:10,839 --> 00:14:16,120
K so formula fed babies can be quicker

306
00:14:13,360 --> 00:14:18,639
to establish their vitamin K levels all

307
00:14:16,120 --> 00:14:20,649
babies however can have the absorption

308
00:14:18,639 --> 00:14:23,169
of vitamin K and the development of a

309
00:14:20,649 --> 00:14:25,419
balanced gut biome interrupted if they

310
00:14:23,169 --> 00:14:27,939
experience digestive disturbances such

311
00:14:25,419 --> 00:14:30,819
as vomiting or diarrhea if they require

312
00:14:27,940 --> 00:14:34,750
antibiotics or if they have affected by

313
00:14:30,820 --> 00:14:36,760
liver disease oh point two five to one

314

00:14:34,750 --> 00:14:38,620
point seven percent of babies who do not

315
00:14:36,759 --> 00:14:40,799
receive a vitamin K shot at birth

316
00:14:38,620 --> 00:14:43,509
develop classic vitamin K deficiency

317
00:14:40,799 --> 00:14:46,599
bleeding which is fortunately rarely

318
00:14:43,509 --> 00:14:49,689
fatal late vitamin K deficiency bleeding

319
00:14:46,600 --> 00:14:51,430
is rarer affecting 427 of every hundred

320
00:14:49,690 --> 00:14:53,399
thousand infants who haven't had the

321
00:14:51,429 --> 00:14:55,539
shot but much more dangerous

322
00:14:53,399 --> 00:14:57,850
hemorrhaging nearly always occurs in

323
00:14:55,539 --> 00:15:00,039
babies brains around twenty percent of

324
00:14:57,850 --> 00:15:01,528
affected babies die and fifty percent

325
00:15:00,039 --> 00:15:05,338
sustain long-term

326
00:15:01,528 --> 00:15:07,470
image as such or newborn babies in

327
00:15:05,339 --> 00:15:10,189
Australia are offered a vitamin K shot

328
00:15:07,470 --> 00:15:12,569

at birth as a prophylactic measure an

329

00:15:10,188 --> 00:15:15,328
alternative to injection is available

330

00:15:12,568 --> 00:15:18,448
oral vitamin K drops administered three

331

00:15:15,328 --> 00:15:20,969
times once at birth once at three to

332

00:15:18,448 --> 00:15:23,849
five days of age and once again at four

333

00:15:20,970 --> 00:15:25,860
weeks of age due to the sometimes

334

00:15:23,850 --> 00:15:28,709
fluctuating efficacy of baby's digestive

335

00:15:25,860 --> 00:15:30,419
systems the potential for missed doses

336

00:15:28,708 --> 00:15:32,429
and the longer time it takes for all

337

00:15:30,419 --> 00:15:34,558
doses to be complete the oral

338

00:15:32,429 --> 00:15:37,169
administration of vitamin K is less

339

00:15:34,558 --> 00:15:38,639
reliable than injection and is not

340

00:15:37,169 --> 00:15:41,188
recommended for babies who have

341

00:15:38,639 --> 00:15:44,818
digestive issues are premature or are

342

00:15:41,188 --> 00:15:47,188
unwell there are no documented adverse

343
00:15:44,818 --> 00:15:50,759
effects resulting from vitamin K shots

344
00:15:47,188 --> 00:15:52,980
however in the early 1990s two studies

345
00:15:50,759 --> 00:15:56,159
suggested a causal link between vitamin

346
00:15:52,980 --> 00:15:57,959
K shots and childhood cancers these

347
00:15:56,159 --> 00:15:59,850
studies were discredited due to poor

348
00:15:57,958 --> 00:16:02,068
methods and small sample sizes and

349
00:15:59,850 --> 00:16:04,620
subsequent reviews of firm no similar

350
00:16:02,068 --> 00:16:06,719
links unfortunately the discredited

351
00:16:04,620 --> 00:16:09,659
studies of hung around gaining credence

352
00:16:06,720 --> 00:16:12,059
in certain circles much like Wakefield's

353
00:16:09,659 --> 00:16:17,338
discredited paper linking autism to the

354
00:16:12,058 --> 00:16:19,350
MMR vaccine onto the news rates of

355
00:16:17,339 --> 00:16:21,870
vitamin K shot refusal have been rising

356
00:16:19,350 --> 00:16:24,028
in the US according to a report in the

357
00:16:21,870 --> 00:16:26,549
journal Pediatrics the rate of refusal

358
00:16:24,028 --> 00:16:29,759
has almost doubled in Alberta from point

359
00:16:26,549 --> 00:16:33,448
to one percent in 2006 20 point three

360
00:16:29,759 --> 00:16:35,339
nine percent in 2012 prompted by the

361
00:16:33,448 --> 00:16:36,828
death of four babies in Nashville who

362
00:16:35,339 --> 00:16:39,059
developed a late vitamin K deficiency

363
00:16:36,828 --> 00:16:41,370
bleeding after their parents declined

364
00:16:39,058 --> 00:16:43,318
the shot a team of researchers looked

365
00:16:41,370 --> 00:16:45,870
into vitamin K refusal rates and

366
00:16:43,318 --> 00:16:48,028
parental attitudes presenting their

367
00:16:45,870 --> 00:16:49,490
preliminary findings at the Council of

368
00:16:48,028 --> 00:16:52,049
State and territorial epidemiologists

369
00:16:49,490 --> 00:16:55,948
conference in nashville tennessee last

370
00:16:52,049 --> 00:16:58,198
june of babies born in 2013 at a

371

00:16:55,948 --> 00:17:03,269
Nashville Children's Hospital the rate

372
00:16:58,198 --> 00:17:05,338
of shot refusal was 2.7% the team also

373
00:17:03,269 --> 00:17:07,859
looked at the rate of refusal across

374
00:17:05,338 --> 00:17:10,198
five freestanding birthing centers which

375
00:17:07,859 --> 00:17:13,958
was substantially higher at twenty-eight

376
00:17:10,199 --> 00:17:15,850
percent parent

377
00:17:13,959 --> 00:17:17,769
who refused the vitamin K shot for the

378
00:17:15,849 --> 00:17:20,168
newborns were invited to participate in

379
00:17:17,769 --> 00:17:22,990
a survey on their attitudes towards the

380
00:17:20,169 --> 00:17:26,169
vitamin K shot forty-seven percent of

381
00:17:22,990 --> 00:17:28,870
these parents responded the leading

382
00:17:26,169 --> 00:17:30,669
reasons given for refusal were a desire

383
00:17:28,869 --> 00:17:34,589
for a natural birthing process and

384
00:17:30,669 --> 00:17:37,720
relieving prophylaxis was unnecessary of

385
00:17:34,589 --> 00:17:40,028

the survey respondents sixty-five

386

00:17:37,720 --> 00:17:43,390

percent also refused the hepatitis B

387

00:17:40,028 --> 00:17:45,190

vaccine and erythromycin I augment which

388

00:17:43,390 --> 00:17:47,380

has routinely given to newborns in the

389

00:17:45,190 --> 00:17:51,308

US as a preventive measure against I

390

00:17:47,380 --> 00:17:53,350

infections mothers who refused the shot

391

00:17:51,308 --> 00:17:55,750

will more likely to have epidural free

392

00:17:53,349 --> 00:17:58,509

vaginal deliveries and babies delivered

393

00:17:55,750 --> 00:18:00,460

by midwives were eight times less likely

394

00:17:58,509 --> 00:18:03,369

to receive vitamin K than babies

395

00:18:00,460 --> 00:18:05,860

delivered by doctors here's an

396

00:18:03,369 --> 00:18:08,019

interesting statistic the children of

397

00:18:05,859 --> 00:18:10,778

parents who declined the vitamin K shot

398

00:18:08,019 --> 00:18:13,418

a 15 times more likely than other

399

00:18:10,778 --> 00:18:16,240

children to have received no vaccines by

400
00:18:13,419 --> 00:18:17,470
the time they're 15 months old this is

401
00:18:16,240 --> 00:18:19,808
the first time that a link has been

402
00:18:17,470 --> 00:18:23,288
demonstrated between vaccine refusal and

403
00:18:19,808 --> 00:18:26,440
vitamin K refusal from the preliminary

404
00:18:23,288 --> 00:18:28,658
findings quote this group of parents

405
00:18:26,440 --> 00:18:30,519
often shares a particular worldview of

406
00:18:28,659 --> 00:18:32,620
health that includes a preference for

407
00:18:30,519 --> 00:18:34,629
natural health remedies and questions

408
00:18:32,619 --> 00:18:36,699
the standard recommended practices of

409
00:18:34,630 --> 00:18:40,690
established medical authorities and

410
00:18:36,700 --> 00:18:42,940
quote there is a crucial difference

411
00:18:40,690 --> 00:18:46,058
between vaccine refusal and vitamin K

412
00:18:42,940 --> 00:18:48,730
refusal however a parent who initially

413
00:18:46,058 --> 00:18:50,710
refuses vaccines then has a change of

414
00:18:48,730 --> 00:18:52,690
mind is able to put their child on a

415
00:18:50,710 --> 00:18:55,778
catch-up schedule providing them with

416
00:18:52,690 --> 00:18:57,610
protection for the future unfortunately

417
00:18:55,778 --> 00:18:59,950
though there is no catch up schedule for

418
00:18:57,609 --> 00:19:02,199
vitamin K shots given the small window

419
00:18:59,950 --> 00:19:04,360
of time for bleeding risk vitamin K

420
00:19:02,200 --> 00:19:08,220
refusal presents a very immediate danger

421
00:19:04,359 --> 00:19:08,219
to babies whose parents decline the shot

422
00:19:26,579 --> 00:19:30,699
hey this is Jay novella from the

423
00:19:29,079 --> 00:19:32,619
skeptics guide to the universe podcast

424
00:19:30,700 --> 00:19:34,480
did you know that there are thousands of

425
00:19:32,619 --> 00:19:36,189
skeptical reports interviews and

426
00:19:34,480 --> 00:19:38,920
investigations going back to nineteen

427
00:19:36,190 --> 00:19:42,160
eighty one free to download just visit w

428

00:19:38,920 --> 00:19:44,080
WC empathic CoA you click the

429
00:19:42,160 --> 00:19:46,060
publications link and enjoy almost every

430
00:19:44,079 --> 00:19:48,009
back issue of the skeptic the journal

431
00:19:46,059 --> 00:19:49,569
from Australian skeptics you can also

432
00:19:48,009 --> 00:19:51,849
subscribe online and get the latest

433
00:19:49,569 --> 00:19:53,859
digital or hard copy of this the world's

434
00:19:51,849 --> 00:19:57,730
second oldest skeptical magazine that's

435
00:19:53,859 --> 00:20:10,929
ww skeptics com au or just Google

436
00:19:57,730 --> 00:20:13,029
Australian skeptics welcome to a week in

437
00:20:10,930 --> 00:20:15,070
science from rars bringing you the

438
00:20:13,029 --> 00:20:16,420
science you need to know the Ebola

439
00:20:15,069 --> 00:20:18,460
outbreaks you've seen in the movies

440
00:20:16,420 --> 00:20:20,769
might scare the daylights out of you but

441
00:20:18,460 --> 00:20:24,180
how realistic are they what is a bowler

442
00:20:20,769 --> 00:20:24,180

and do you need to worry

443

00:20:29,900 --> 00:20:34,650

the proper name for the disease is a

444

00:20:32,279 --> 00:20:37,619

bowler hemorrhagic fever there are five

445

00:20:34,650 --> 00:20:39,570

strains of the disease the 2014 outbreak

446

00:20:37,619 --> 00:20:41,459

in West Africa is there's a year strain

447

00:20:39,569 --> 00:20:43,889

which is the most virulent form and

448

00:20:41,460 --> 00:20:45,509

comes from bats it is transmitted by

449

00:20:43,890 --> 00:20:48,360

direct contact with infected bodily

450

00:20:45,509 --> 00:20:51,240

fluids such as blood sweat tears saliva

451

00:20:48,359 --> 00:20:52,799

or vomit it can even be carried in semen

452

00:20:51,240 --> 00:20:55,200

up to seven weeks after the infection

453

00:20:52,799 --> 00:20:57,899

has cleared fatality rates of Ebola in

454

00:20:55,200 --> 00:20:59,880

humans can be as high as 90 percent it

455

00:20:57,900 --> 00:21:01,920

normally causes death by lowering blood

456

00:20:59,880 --> 00:21:03,960

pressure causing organs to fail and

457
00:21:01,920 --> 00:21:05,850
weakening the immune system so while

458
00:21:03,960 --> 00:21:08,039
there is currently no proven vaccine or

459
00:21:05,849 --> 00:21:09,929
cure death rates can be reduced by

460
00:21:08,039 --> 00:21:11,430
treating the dehydration and using

461
00:21:09,930 --> 00:21:15,570
antibiotics to treat secondary

462
00:21:11,430 --> 00:21:17,880
infections symptoms generally appear in

463
00:21:15,569 --> 00:21:20,039
eight to ten days after infection but in

464
00:21:17,880 --> 00:21:21,690
some cases can take up to three weeks to

465
00:21:20,039 --> 00:21:23,399
appear meaning someone could have

466
00:21:21,690 --> 00:21:26,009
infected lots of people before they even

467
00:21:23,400 --> 00:21:28,140
know they have Ebola even then the early

468
00:21:26,009 --> 00:21:30,599
symptoms can seem innocuous such as red

469
00:21:28,140 --> 00:21:32,520
eyes or a rash symptoms developed to

470
00:21:30,599 --> 00:21:34,859
include a high fever severe headache

471
00:21:32,519 --> 00:21:36,900
muscle pain vomiting diarrhea and

472
00:21:34,859 --> 00:21:39,539
unexplained bleeding or bruising

473
00:21:36,900 --> 00:21:42,000
outbreaks often occur in warm areas like

474
00:21:39,539 --> 00:21:44,309
West Africa this heat can affect health

475
00:21:42,000 --> 00:21:46,650
workers focus increasing the chance of

476
00:21:44,309 --> 00:21:48,569
accidental infection to combat this they

477
00:21:46,650 --> 00:21:50,280
generally work in pairs and for no more

478
00:21:48,569 --> 00:21:53,700
than 40 minutes at a time in the bio

479
00:21:50,279 --> 00:21:56,069
safety equipment and now for fast facts

480
00:21:53,700 --> 00:21:59,619
about Ebola

481
00:21:56,069 --> 00:22:01,538
Ebola was first identified in 1976 and

482
00:21:59,618 --> 00:22:03,459
it's named after the Ebola river where

483
00:22:01,538 --> 00:22:05,558
one of the first outbreaks was recorded

484
00:22:03,460 --> 00:22:07,690
you know in movies where patients spew

485

00:22:05,558 --> 00:22:09,759
blood and bleed to death that's a bit of

486
00:22:07,690 --> 00:22:12,249
a myth Ebola isn't as dramatic as that

487
00:22:09,759 --> 00:22:14,980
and patients mainly just look sick or

488
00:22:12,249 --> 00:22:17,079
weak the Ebola virus is transmitted to

489
00:22:14,980 --> 00:22:19,690
humans from wild animals particularly

490
00:22:17,079 --> 00:22:22,329
fruit bats which are a popular bush meat

491
00:22:19,690 --> 00:22:24,669
and there may be hope for a vaccine with

492
00:22:22,329 --> 00:22:26,499
human trials underway in America that's

493
00:22:24,669 --> 00:22:28,690
it for this week in science for more

494
00:22:26,499 --> 00:22:33,339
information on Ebola go to the rous

495
00:22:28,690 --> 00:22:35,288
website I I a USC org a you follow us on

496
00:22:33,339 --> 00:22:38,138
twitter at our iOS and like us on

497
00:22:35,288 --> 00:22:55,269
Facebook I'm Alison Kershaw and we'll

498
00:22:38,138 --> 00:22:57,278
catch you next week rusty Brucie I mean

499
00:22:55,269 --> 00:22:59,618

as a video fear of Islamic law be so

500

00:22:57,278 --> 00:23:01,839

skeptical Mousavi was not just a shikara

501

00:22:59,618 --> 00:23:03,548

prohodit cars the divinity of austria it

502

00:23:01,839 --> 00:23:05,678

algebra grampa tsuchikage podcast

503

00:23:03,548 --> 00:23:07,658

Petrova hooded garden engine but Gospels

504

00:23:05,679 --> 00:23:10,028

White's escaped aside a cutter bombers

505

00:23:07,659 --> 00:23:15,009

was not initiated st at a wave over

506

00:23:10,028 --> 00:23:16,419

skeptics society Rajguru everybody my

507

00:23:15,009 --> 00:23:18,519

name is carol and i'm the founder of

508

00:23:16,419 --> 00:23:20,470

skeptics society russia come visit us

509

00:23:18,519 --> 00:23:22,599

and masculine our bi-weekly meetings and

510

00:23:20,470 --> 00:23:24,339

also since our weekly podcast which is

511

00:23:22,599 --> 00:23:26,408

called skeptic and the site where you

512

00:23:24,339 --> 00:23:28,980

can find all that this skeptics society

513

00:23:26,409 --> 00:23:28,980

that are you

514
00:23:39,009 --> 00:23:46,240
here's my not spooky action at a

515
00:23:43,669 --> 00:23:46,240
distance

516
00:23:47,089 --> 00:23:52,470
well I'm here would joke but how are you

517
00:23:50,038 --> 00:23:54,298
today I'm very well matter and why do

518
00:23:52,470 --> 00:23:58,470
you think we should still be a skeptic

519
00:23:54,298 --> 00:24:00,900
in 2014 why should we still be one well

520
00:23:58,470 --> 00:24:02,819
I mean what is still to be done well

521
00:24:00,900 --> 00:24:05,159
there's plenty still to be done in fact

522
00:24:02,819 --> 00:24:07,548
there's probably more reason now for us

523
00:24:05,159 --> 00:24:10,559
to be skeptical than ever before because

524
00:24:07,548 --> 00:24:12,720
you know yeah we've gone through this

525
00:24:10,558 --> 00:24:14,730
period where we're now we've got access

526
00:24:12,720 --> 00:24:16,798
to so much information than we ever have

527
00:24:14,730 --> 00:24:19,980
before most of it is completely

528
00:24:16,798 --> 00:24:21,629
unfiltered and unchecked and humans

529
00:24:19,980 --> 00:24:24,298
have not changed very much we're still

530
00:24:21,630 --> 00:24:26,940
just as flawed silly and gullible as we

531
00:24:24,298 --> 00:24:30,359
ever were and what lures got your goat

532
00:24:26,940 --> 00:24:32,519
recently oh I know it's usually pretty

533
00:24:30,359 --> 00:24:35,129
it's a very large Venn diagram a couple

534
00:24:32,519 --> 00:24:36,869
of the choose from look you know I never

535
00:24:35,130 --> 00:24:39,899
stray far away from the alternative

536
00:24:36,869 --> 00:24:41,250
medicines but these days I'm quite

537
00:24:39,898 --> 00:24:43,979
interested in traditional Chinese

538
00:24:41,250 --> 00:24:45,659
medicine because I think there's a quite

539
00:24:43,980 --> 00:24:50,480
a lot of risk of harm there when it's

540
00:24:45,659 --> 00:24:53,490
not when it's not sort of well well

541
00:24:50,480 --> 00:24:55,200
control and I think also because out of

542

00:24:53,490 --> 00:24:56,609
all the alternative medicines it's the

543
00:24:55,200 --> 00:24:58,380
one that has the greatest risk of harm

544
00:24:56,609 --> 00:25:00,389
not just to humans but also to all the

545
00:24:58,380 --> 00:25:02,039
endangered species so can I go down to

546
00:25:00,390 --> 00:25:06,630
Chinatown here and get myself a bit of a

547
00:25:02,038 --> 00:25:08,398
Fidra or not idea i don't know because i

548
00:25:06,630 --> 00:25:09,539
know they banned it in the US but he

549
00:25:08,398 --> 00:25:10,949
says you could probably go down to try

550
00:25:09,538 --> 00:25:12,390
to town to get just about anything you

551
00:25:10,950 --> 00:25:14,159
want because there was a strong

552
00:25:12,390 --> 00:25:16,140
political lobby with the chinese

553
00:25:14,159 --> 00:25:17,640
medicine that goes along with that and

554
00:25:16,140 --> 00:25:19,649
does that make it a bit more difficult

555
00:25:17,640 --> 00:25:22,200
to put a bit of weight behind it does

556
00:25:19,648 --> 00:25:24,178

very much so because of you know you can

557

00:25:22,200 --> 00:25:26,190

be seen sometimes if you're if you're

558

00:25:24,179 --> 00:25:27,390

criticizing chinese medicine or

559

00:25:26,190 --> 00:25:29,250

traditional chinese medicine i should

560

00:25:27,390 --> 00:25:31,980

say you could be seen as being

561

00:25:29,250 --> 00:25:34,980

culturally insensitive but you know

562

00:25:31,980 --> 00:25:36,990

ultimately if you go to China and you

563

00:25:34,980 --> 00:25:38,429

know sorry if you if you if you know the

564

00:25:36,990 --> 00:25:40,380

history of traditional Chinese medicine

565

00:25:38,429 --> 00:25:42,538

you'll know that in fact while people

566

00:25:40,380 --> 00:25:44,179

claim that a scopus this history that

567

00:25:42,538 --> 00:25:46,798

goes a thousands and thousands of years

568

00:25:44,179 --> 00:25:50,330

in fact it was brought back by Mao

569

00:25:46,798 --> 00:25:54,079

Zedong arm and when he was

570

00:25:50,329 --> 00:25:55,970

around as a way to provide medical care

571
00:25:54,079 --> 00:25:57,980
for the masses when they couldn't really

572
00:25:55,970 --> 00:26:00,798
afford to provide a good quality

573
00:25:57,980 --> 00:26:03,500
evidence based medicine that we that we

574
00:26:00,798 --> 00:26:05,480
know so you know it's the whole argument

575
00:26:03,500 --> 00:26:08,869
from antiquity it's been around forever

576
00:26:05,480 --> 00:26:11,990
so you know Austin it must be good but

577
00:26:08,869 --> 00:26:13,668
so many of the train eat Chinese

578
00:26:11,990 --> 00:26:16,099
medicines they can buy are adulterated

579
00:26:13,669 --> 00:26:18,380
with heavy metals as I said before

580
00:26:16,099 --> 00:26:20,538
there's a huge risk to endangered

581
00:26:18,380 --> 00:26:22,940
species because there's no there's no

582
00:26:20,538 --> 00:26:23,960
quality control with it so you don't

583
00:26:22,940 --> 00:26:25,730
even know how much of the active

584
00:26:23,960 --> 00:26:28,009
ingredient is in it if anything exactly

585
00:26:25,730 --> 00:26:29,538
and in fact just last week a report came

586
00:26:28,009 --> 00:26:32,690
out and then use about a woman down in

587
00:26:29,538 --> 00:26:35,179
Melbourne who ended up severely ill

588
00:26:32,690 --> 00:26:37,600
after she was prescribed some kind of

589
00:26:35,179 --> 00:26:40,519
traditional Chinese herbal remedy and

590
00:26:37,599 --> 00:26:42,888
she was given instructions on how to use

591
00:26:40,519 --> 00:26:47,200
it it boiled these herbs in her kitchen

592
00:26:42,888 --> 00:26:49,219
drank whatever sort of you know T or

593
00:26:47,200 --> 00:26:51,470
concoction came out of it and she ended

594
00:26:49,220 --> 00:26:55,298
up severely ill in intensive care i

595
00:26:51,470 --> 00:26:57,288
think it was as a result of this and yes

596
00:26:55,298 --> 00:26:58,519
let's just have it be shared out right

597
00:26:57,288 --> 00:27:00,288
now to all the nurses out there

598
00:26:58,519 --> 00:27:02,630
listening that are doing the good job in

599

00:27:00,288 --> 00:27:04,879
in the hospitals in the care places

600
00:27:02,630 --> 00:27:06,380
every day because i made a lot of like

601
00:27:04,880 --> 00:27:07,909
to give them a bit of a shout out get on

602
00:27:06,380 --> 00:27:09,470
yahoo sure yeah shout out to all the

603
00:27:07,909 --> 00:27:11,600
wonderful nurses out there doing an

604
00:27:09,470 --> 00:27:13,610
amazing job looking after patients and

605
00:27:11,599 --> 00:27:14,808
really what did you find them the most

606
00:27:13,609 --> 00:27:17,000
difficult thing about looking after

607
00:27:14,808 --> 00:27:18,500
patients in a hospital situation is it

608
00:27:17,000 --> 00:27:20,119
that they're cranky there's a

609
00:27:18,500 --> 00:27:21,859
psychological aspect to it or is it the

610
00:27:20,119 --> 00:27:24,109
physical aspect with the lifting of them

611
00:27:21,859 --> 00:27:25,308
or the ER key aspect because the things

612
00:27:24,109 --> 00:27:27,648
you have to do what's the most difficult

613
00:27:25,308 --> 00:27:30,200

part of the job for you look I haven't

614

00:27:27,648 --> 00:27:31,908

been on the wards for a long time these

615

00:27:30,200 --> 00:27:34,759

days I've got more medial ivory tower

616

00:27:31,909 --> 00:27:36,830

I've been by over each other yes so I

617

00:27:34,759 --> 00:27:39,169

work in clinical trials these days I'm

618

00:27:36,829 --> 00:27:42,019

behind a desk a lot of the time but

619

00:27:39,169 --> 00:27:44,840

ultimately you know I've always loved

620

00:27:42,019 --> 00:27:46,669

that the privilege I have of being able

621

00:27:44,839 --> 00:27:47,808

to look after patients will look out to

622

00:27:46,669 --> 00:27:49,440

people at a time when they're at the

623

00:27:47,808 --> 00:27:51,509

most vulnerable and

624

00:27:49,440 --> 00:27:54,538

you know something I've always said is

625

00:27:51,509 --> 00:27:56,429

that yeah for example being diagnosed

626

00:27:54,538 --> 00:27:59,069

with cancer doesn't suddenly make you a

627

00:27:56,429 --> 00:28:00,750

nice person so there are times when you

628
00:27:59,069 --> 00:28:02,839
could be looking after someone who has

629
00:28:00,750 --> 00:28:04,740
quite a challenging personality and

630
00:28:02,839 --> 00:28:06,569
maybe they're not being particularly

631
00:28:04,740 --> 00:28:08,429
nice to you and I think that one of the

632
00:28:06,569 --> 00:28:10,378
hardest things is you know when you've

633
00:28:08,429 --> 00:28:13,710
got a patient who maybe is being quite

634
00:28:10,378 --> 00:28:15,798
unpleasant is binding the way to kind of

635
00:28:13,710 --> 00:28:18,149
traverse the boundaries between

636
00:28:15,798 --> 00:28:21,210
recognizing that they are vulnerable and

637
00:28:18,148 --> 00:28:23,069
that you have a duty of care to them but

638
00:28:21,210 --> 00:28:25,740
at the same time making it clear that

639
00:28:23,069 --> 00:28:27,928
it's not acceptable to treat any any

640
00:28:25,740 --> 00:28:31,528
professional who's looking after you in

641
00:28:27,929 --> 00:28:33,750
a disrespectful way so so that will be

642
00:28:31,528 --> 00:28:36,538
come in handy in debates and during

643
00:28:33,750 --> 00:28:39,839
dating as well it's quite a handy skill

644
00:28:36,538 --> 00:28:41,638
to have well look it enjoy your trip

645
00:28:39,839 --> 00:28:43,769
down to me when you move when we lose

646
00:28:41,638 --> 00:28:45,778
you to South the southerners a couple of

647
00:28:43,769 --> 00:28:47,399
weeks left still you know wrapping

648
00:28:45,778 --> 00:28:48,869
things up in Sydney got a lot of a lot

649
00:28:47,398 --> 00:28:51,449
of things to do and people to say

650
00:28:48,869 --> 00:28:52,829
goodbye to but because you're pushing

651
00:28:51,450 --> 00:28:54,000
evidence-based Joe and everyone who

652
00:28:52,829 --> 00:28:55,199
knows you should get a chance to at

653
00:28:54,000 --> 00:28:56,519
least have a drink with it before you go

654
00:28:55,200 --> 00:28:58,230
which means you'll spend the entire time

655
00:28:56,519 --> 00:29:00,569
drunk before you leave which is like

656

00:28:58,230 --> 00:29:02,099
okay yeah but but to tell us what's the

657
00:29:00,569 --> 00:29:04,109
most exciting development in actual

658
00:29:02,099 --> 00:29:05,339
medicine that's on the horizon the

659
00:29:04,109 --> 00:29:06,839
obscene gee that looks pretty good

660
00:29:05,339 --> 00:29:08,369
because you read all the books you know

661
00:29:06,839 --> 00:29:11,308
all the big words you can actually

662
00:29:08,369 --> 00:29:14,668
navigate pubmed unlike myself I don't

663
00:29:11,308 --> 00:29:16,349
know the Missy even has been tricked you

664
00:29:14,669 --> 00:29:21,299
know so what do you think's really be I

665
00:29:16,349 --> 00:29:22,798
think that genetics and personalized

666
00:29:21,298 --> 00:29:25,319
medicine is one of the most exciting

667
00:29:22,798 --> 00:29:26,460
things that we have to look forward so

668
00:29:25,319 --> 00:29:28,599
you see we live in the world like

669
00:29:26,460 --> 00:29:30,640
gattaca do you want get again

670
00:29:28,599 --> 00:29:33,939

that's what you're talking I love that

671

00:29:30,640 --> 00:29:35,230
movie but no um no I think I think the

672

00:29:33,940 --> 00:29:37,509
most exciting thing is just the fact

673

00:29:35,230 --> 00:29:39,250
that you know treatments these days are

674

00:29:37,509 --> 00:29:41,529
becoming more and more and more targeted

675

00:29:39,250 --> 00:29:42,789
to the individual so as we're getting a

676

00:29:41,529 --> 00:29:45,039
better understanding of the human genome

677

00:29:42,789 --> 00:29:47,190
and of how different treatments can be

678

00:29:45,039 --> 00:29:51,099
tailored towards an individual's genetic

679

00:29:47,190 --> 00:29:52,779
makeup we're able to find incredible

680

00:29:51,099 --> 00:29:54,219
ways to treat diseases that we never

681

00:29:52,779 --> 00:29:56,049
would have thought possible we're going

682

00:29:54,220 --> 00:29:57,850
to hit a long way to go and the ethics

683

00:29:56,049 --> 00:29:59,409
around it are still you know in terms of

684

00:29:57,849 --> 00:30:01,809
anything to do with genetics and genetic

685
00:29:59,410 --> 00:30:04,300
testing and so on the huge ethical

686
00:30:01,809 --> 00:30:06,609
issues to debate and for society to

687
00:30:04,299 --> 00:30:07,990
consider but in terms of what we've got

688
00:30:06,609 --> 00:30:10,869
to look for so I think the future looks

689
00:30:07,990 --> 00:30:13,150
very bright sure we won't just gravitate

690
00:30:10,869 --> 00:30:16,539
towards regrowing here and making

691
00:30:13,150 --> 00:30:19,150
penises larger I suspect that that will

692
00:30:16,539 --> 00:30:21,399
definitely happen in fact I'll be

693
00:30:19,150 --> 00:30:23,320
checking my spam inbox when I get home

694
00:30:21,400 --> 00:30:26,110
and I'm sure I'll find a few things you

695
00:30:23,319 --> 00:30:27,970
enjoy your trip and pleated dunk over to

696
00:30:26,109 --> 00:30:31,569
the dark side of sport we mustn't lose

697
00:30:27,970 --> 00:30:35,470
you to spawn it'll never happen never I

698
00:30:31,569 --> 00:30:37,299
tried I can't do it well I'm here with a

699
00:30:35,470 --> 00:30:39,069
real troublemaker a real troublemaker a

700
00:30:37,299 --> 00:30:42,279
guy who you two of the world causing

701
00:30:39,069 --> 00:30:44,409
trouble who we got sir I'm Gary and I'm

702
00:30:42,279 --> 00:30:46,500
here I guess to try and tell people

703
00:30:44,410 --> 00:30:49,480
about a free science fiction convention

704
00:30:46,500 --> 00:30:53,319
which is taking place over the weekend

705
00:30:49,480 --> 00:30:55,539
of december five six and seven at a

706
00:30:53,319 --> 00:30:58,029
place called clinton park but why a

707
00:30:55,539 --> 00:30:59,230
science fiction festival at this place

708
00:30:58,029 --> 00:31:02,309
and what are you going to do is going to

709
00:30:59,230 --> 00:31:05,220
be a bunch of book will shatner be there

710
00:31:02,309 --> 00:31:08,379
he's not actually answering my emails ah

711
00:31:05,220 --> 00:31:09,660
bastard but he's possibly on an away

712
00:31:08,380 --> 00:31:12,310
mission somewhere doing something

713

00:31:09,660 --> 00:31:15,460
unbelievable if you catch his program on

714
00:31:12,309 --> 00:31:16,869
SPS at one thirty in the morning but why

715
00:31:15,460 --> 00:31:18,670
don't we get back to the freaking big

716
00:31:16,869 --> 00:31:20,139
yeah let's get back to this sort of

717
00:31:18,670 --> 00:31:21,430
science fiction here yes this sort of

718
00:31:20,140 --> 00:31:23,830
science fiction this is real science

719
00:31:21,430 --> 00:31:26,590
fiction now what we're going to be doing

720
00:31:23,829 --> 00:31:29,230
is in previous years I've run free

721
00:31:26,589 --> 00:31:31,629
concert bankstown North Sydney the

722
00:31:29,230 --> 00:31:34,390
Australian Museum the new south wales

723
00:31:31,630 --> 00:31:36,430
institute of technology but what we're

724
00:31:34,390 --> 00:31:38,890
likely to have is about a dozen science

725
00:31:36,430 --> 00:31:41,120
fiction and fantasy writers who will be

726
00:31:38,890 --> 00:31:43,460
on panels i'll be discussing there were

727
00:31:41,119 --> 00:31:45,558

and the progress of science fiction and

728

00:31:43,460 --> 00:31:49,308

fantasy publishing generally there will

729

00:31:45,558 --> 00:31:52,039

be a number of audience interest events

730

00:31:49,308 --> 00:31:54,440

which I call whiteboard as democracy

731

00:31:52,039 --> 00:31:56,058

where we'll have a whiteboard and you

732

00:31:54,440 --> 00:31:58,130

can write up a topic and depending on

733

00:31:56,058 --> 00:31:59,930

how many people sort of ticket circle it

734

00:31:58,130 --> 00:32:01,700

or whatever there's a possibility that

735

00:31:59,930 --> 00:32:03,500

that will be one of the afternoon topics

736

00:32:01,700 --> 00:32:06,319

on the Saturday or the Sunday this will

737

00:32:03,500 --> 00:32:08,119

not be a magnet for loonies will it well

738

00:32:06,319 --> 00:32:09,950

we don't get lunatic Lampton park they

739

00:32:08,119 --> 00:32:11,929

generally sort of get let's not bury

740

00:32:09,950 --> 00:32:13,519

north so this strikes me is something

741

00:32:11,930 --> 00:32:15,860

that would be good as your other ones

742
00:32:13,519 --> 00:32:17,690
have been for an up-and-coming author or

743
00:32:15,859 --> 00:32:19,039
someone who's may be experiencing even a

744
00:32:17,690 --> 00:32:21,080
bit of writer's block at the time being

745
00:32:19,039 --> 00:32:23,000
particularly because one of the features

746
00:32:21,079 --> 00:32:25,039
of this event will be a short story

747
00:32:23,000 --> 00:32:27,679
writing competition that will not only

748
00:32:25,039 --> 00:32:31,039
be judged by that whoever attends the

749
00:32:27,679 --> 00:32:32,929
freak on it will also provide anyone who

750
00:32:31,039 --> 00:32:35,659
cares to enter it with an opportunity

751
00:32:32,929 --> 00:32:37,280
for a bit of direct feedback and they

752
00:32:35,660 --> 00:32:39,590
can see what all the other stories are

753
00:32:37,279 --> 00:32:41,119
like they can possibly stand next to

754
00:32:39,589 --> 00:32:42,949
their story and sort of make veiled

755
00:32:41,119 --> 00:32:45,409
hints as to why this one is terrific and

756
00:32:42,950 --> 00:32:46,880
possibly be told by actual readers that

757
00:32:45,410 --> 00:32:48,290
now it's not that good because it

758
00:32:46,880 --> 00:32:50,330
doesn't make sense there and all that

759
00:32:48,289 --> 00:32:51,558
sort of thing so how would people find

760
00:32:50,329 --> 00:32:53,058
out about this online you've got a

761
00:32:51,558 --> 00:32:55,220
website as a place we and all gonna have

762
00:32:53,058 --> 00:32:57,649
a look at this pricing Lee we do have a

763
00:32:55,220 --> 00:33:02,240
website is in being created at the

764
00:32:57,650 --> 00:33:04,910
moment but you can write to me you know

765
00:33:02,240 --> 00:33:06,650
that old-fashioned sort of version of

766
00:33:04,910 --> 00:33:08,509
picking up a quill pen sharpening it

767
00:33:06,650 --> 00:33:10,429
dipping it in ink and let's face it if

768
00:33:08,509 --> 00:33:12,379
you're a writer you should at least be

769
00:33:10,429 --> 00:33:15,620
able to send a letter if you like you

770

00:33:12,380 --> 00:33:20,020
can write to me at local post office box

771
00:33:15,619 --> 00:33:23,750
for 15 to bexley north New South Wales

772
00:33:20,019 --> 00:33:25,400
2207 there will be a website up and

773
00:33:23,750 --> 00:33:28,130
running shortly that'll be loaded with

774
00:33:25,400 --> 00:33:30,110
stuff that you can download about it so

775
00:33:28,130 --> 00:33:32,570
put pen to paper find out more about it

776
00:33:30,109 --> 00:33:34,159
go along and become a better writer or

777
00:33:32,569 --> 00:33:37,308
at least be exposed to people who want

778
00:33:34,160 --> 00:33:40,420
to but that's a person enlightenment

779
00:33:37,308 --> 00:33:40,420
through science fiction

780
00:33:59,000 --> 00:34:02,250
thank you for listening to the skeptic

781
00:34:01,200 --> 00:34:05,759
zone well it's still a hot afternoon

782
00:34:02,250 --> 00:34:08,250
here in Malibu South Australia why the

783
00:34:05,759 --> 00:34:10,168
the Racing crew and I have been in South

784
00:34:08,250 --> 00:34:11,789

Australia for this event we've been

785

00:34:10,168 --> 00:34:14,579

staying at a wonderful place called Lynn

786

00:34:11,789 --> 00:34:16,800

doc hill in the barossa valley now I

787

00:34:14,579 --> 00:34:18,628

don't run around normally on the skeptic

788

00:34:16,800 --> 00:34:20,909

zone promoting things and plugging

789

00:34:18,628 --> 00:34:24,029

things that aren't really do with

790

00:34:20,909 --> 00:34:27,419

skepticism sometimes but I must say that

791

00:34:24,030 --> 00:34:29,820

people at Linda Hill were wonderful

792

00:34:27,418 --> 00:34:31,949

hosts and looked after us very well

793

00:34:29,820 --> 00:34:34,200

indeed Lynn doc hill in the barossa

794

00:34:31,949 --> 00:34:36,329

valley and it's my first trip my first

795

00:34:34,199 --> 00:34:40,348

visit to the Barossa Valley a very

796

00:34:36,329 --> 00:34:42,869

famous wine centre wine area in

797

00:34:40,349 --> 00:34:45,720

Australia and it's just been a really

798

00:34:42,869 --> 00:34:48,119

wonderful wonderful experience to visit

799

00:34:45,719 --> 00:34:50,908
the area Thank You Linda hill for

800

00:34:48,119 --> 00:34:54,480
looking after us coming up on next

801

00:34:50,909 --> 00:34:55,740
week's show I have no idea that's one of

802

00:34:54,480 --> 00:34:57,990
the joys about doing the skeptics own

803

00:34:55,739 --> 00:35:01,649
folks I just sometimes I have no idea i

804

00:34:57,989 --> 00:35:04,108
think more and more runs to give with a

805

00:35:01,650 --> 00:35:06,869
grain of salt I think there are still a

806

00:35:04,108 --> 00:35:10,440
few more interviews to go from his visit

807

00:35:06,869 --> 00:35:12,990
to QED and speaking of QED and people I

808

00:35:10,440 --> 00:35:15,480
meet in QED of course the wonderful news

809

00:35:12,989 --> 00:35:18,868
is Michael Marshall who I met at that

810

00:35:15,480 --> 00:35:21,030
QED a good friend of mine is coming over

811

00:35:18,869 --> 00:35:23,338
for the Australian skeptics national

812

00:35:21,030 --> 00:35:25,650
convention at the end of november the

813
00:35:23,338 --> 00:35:30,630
lineup is looking so good the tickets

814
00:35:25,650 --> 00:35:33,030
are selling very well indeed wwc bacame

815
00:35:30,630 --> 00:35:35,608
you for all your Australian skeptics

816
00:35:33,030 --> 00:35:37,710
information and information about the

817
00:35:35,608 --> 00:35:40,289
upcoming convention looking forward to

818
00:35:37,710 --> 00:35:45,389
that and just on a personal note this is

819
00:35:40,289 --> 00:35:46,949
not the last week that I am president of

820
00:35:45,389 --> 00:35:48,569
Australian skeptics I've decided to I

821
00:35:46,949 --> 00:35:51,000
take a bit of a backseat for a little

822
00:35:48,570 --> 00:35:52,349
while that's alright that's fine i'm

823
00:35:51,000 --> 00:35:53,880
looking forward to that i'm still going

824
00:35:52,349 --> 00:35:57,750
to be very active of course but i just

825
00:35:53,880 --> 00:36:00,950
won't be the president oh well good luck

826
00:35:57,750 --> 00:36:03,750
to the next one but for now from

827

00:36:00,949 --> 00:36:07,399
beautiful Malala in South Australia this

828
00:36:03,750 --> 00:36:07,400
is Richard Saunders signing off

829
00:36:09,059 --> 00:36:16,449
you've been listening to the skeptic

830
00:36:11,469 --> 00:36:20,230
zone visit our website at [www skeptics](http://www.skeptics)

831
00:36:16,449 --> 00:36:23,159
on TV for comments contacts and extra

832
00:36:20,230 --> 00:36:23,159
video reports

833
00:36:26,230 --> 00:36:28,289
you