

The Skeptic Zone
Show 308 - 14 Sept 2014



1
00:00:22,190 --> 00:00:09,100
welcome to the skeptic zone the podcast

2
00:00:28,200 --> 00:00:24,720
hello and welcome to the skeptic zone

3
00:00:30,720 --> 00:00:28,210
episode number 308 for the 14th of sep

4
00:00:34,050 --> 00:00:30,730
tember 2014 Richard Saunders here with

5
00:00:36,120 --> 00:00:34,060
you from South Australia the wonderful

6
00:00:39,450 --> 00:00:36,130
state of South Australia and I met

7
00:00:41,430 --> 00:00:39,460
Malala Motorsport Park you can probably

8
00:00:42,990 --> 00:00:41,440
hear some of the cars zooming around the

9
00:00:45,420 --> 00:00:43,000
track in the background I'm here today

10
00:00:48,750 --> 00:00:45,430
as I've been for last few days to do

11
00:00:51,510 --> 00:00:48,760
some work in car video type work which I

12
00:00:55,259 --> 00:00:51,520
do from time to time and that's a lot of

13
00:00:59,610 --> 00:00:55,269

fun I've snuck away found a moment to

14

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

sneak our snuck a snack away to record

15

00:01:03,450 --> 00:01:01,330

the introduction for the skeptic zone

16

00:01:05,220 --> 00:01:03,460

well what's coming up this week we're

17

00:01:09,120 --> 00:01:05,230

going to kick off with them an

18

00:01:11,630 --> 00:01:09,130

interesting report written by Mick vague

19

00:01:14,940 --> 00:01:11,640

which appeared on the conversation calm

20

00:01:17,550 --> 00:01:14,950

inspired one possibly inspired by the

21

00:01:20,610 --> 00:01:17,560

latest issue of the skeptic magazine the

22

00:01:23,460 --> 00:01:20,620

journal from Australian skeptics and in

23

00:01:28,310 --> 00:01:23,470

the latest issue there's an report and

24

00:01:32,010 --> 00:01:28,320

item about pharmacies pharmacies and

25

00:01:35,100 --> 00:01:32,020

their unfortunate habit in this country

26

00:01:38,940 --> 00:01:35,110

at least of selling what we consider to

27

00:01:41,880 --> 00:01:38,950

be quackery homeopathy iridology ear

28

00:01:43,980 --> 00:01:41,890

candles and that sort of thing a very

29

00:01:45,679 --> 00:01:43,990

interesting piece by macfag coming up at

30

00:01:48,480 --> 00:01:45,689

the top of the show followed by

31

00:01:50,459 --> 00:01:48,490

something I think may have appeared on

32

00:01:52,800 --> 00:01:50,469

the skeptic zone before over the years

33

00:01:54,330 --> 00:01:52,810

I'll have to check into that this is an

34

00:01:56,249 --> 00:01:54,340

open letter to the pharmacies of

35

00:01:59,450 --> 00:01:56,259

Australia that I wrote some years ago on

36

00:02:02,760 --> 00:01:59,460

behalf of Australian skeptics basically

37

00:02:05,370 --> 00:02:02,770

appealing to them to stop selling ear

38

00:02:08,999 --> 00:02:05,380

candles especially and other quackery

39

00:02:11,010 --> 00:02:09,009

but especially ear candles now good old

40

00:02:13,260 --> 00:02:11,020

ear candles I think the very first dr.

41

00:02:16,560 --> 00:02:13,270

Richie reports on the skeptic zone six

42

00:02:18,600 --> 00:02:16,570

years ago was about ear candles of all

43

00:02:20,760 --> 00:02:18,610

the bizarre quackery I've seen over the

44

00:02:24,030 --> 00:02:20,770

years folks sticking a candle in your

45

00:02:28,350 --> 00:02:24,040

ear and lighting the other end hello

46

00:02:30,570 --> 00:02:28,360

there's a fly I think of your google Mel

47

00:02:32,850 --> 00:02:30,580

allow you'll discover it sir

48

00:02:34,410 --> 00:02:32,860

a very interesting location near

49

00:02:36,270 --> 00:02:34,420

Adelaide in South Australia but I've

50

00:02:40,470 --> 00:02:36,280

been told the Flyers here can get pretty

51
00:02:43,140 --> 00:02:40,480
bad pretty bad anyway back to the show

52
00:02:45,900 --> 00:02:43,150
after that it's evidence please with Joe

53
00:02:50,480 --> 00:02:45,910
alabaster and Joe is going to be looking

54
00:02:53,910 --> 00:02:50,490
into our vitamin K and why some people

55
00:02:55,980 --> 00:02:53,920
don't take advantage of vitamin K I

56
00:02:57,540 --> 00:02:55,990
don't know very much about vitamin K

57
00:02:59,820 --> 00:02:57,550
myself so I'll be very interested to

58
00:03:03,030 --> 00:02:59,830
hear Joe alabaster's evidence please

59
00:03:04,440 --> 00:03:03,040
this week after that it's a week in

60
00:03:07,350 --> 00:03:04,450
science from our friends at the Royal

61
00:03:09,180 --> 00:03:07,360
Institution of Australia that's only

62
00:03:11,699 --> 00:03:09,190
about an hour away from where i am in

63
00:03:16,920 --> 00:03:11,709

right now a Mel Allen I haven't got time

64

00:03:22,230 --> 00:03:16,930

to visit ah oh well shall we fly out up

65

00:03:24,870 --> 00:03:22,240

damn fly there we go and i'm using a car

66

00:03:26,790 --> 00:03:24,880

as a recording booth today and then ran

67

00:03:28,770 --> 00:03:26,800

off the show it's Maynard's spooky

68

00:03:30,150 --> 00:03:28,780

action more Maynard from skeptics in the

69

00:03:31,790 --> 00:03:30,160

pub the other week here in Sydney

70

00:03:34,650 --> 00:03:31,800

Maynard catches up with our dear friend

71

00:03:36,509 --> 00:03:34,660

Johanne been amoo Joe and Ben amoo who

72

00:03:39,150 --> 00:03:36,519

did some reports on the skeptic zone a

73

00:03:42,060 --> 00:03:39,160

little while ago joannes off to live in

74

00:03:44,550 --> 00:03:42,070

Melbourne we wish her every luck every

75

00:03:48,090 --> 00:03:44,560

success of course but he'll be chatting

76
00:03:50,250 --> 00:03:48,100
to Joe about her opinions on Chinese

77
00:03:52,979 --> 00:03:50,260
medicine and other things and then a

78
00:03:56,009 --> 00:03:52,989
chat with an old friend of mine Gary

79
00:03:57,420 --> 00:03:56,019
Dalrymple who runs a free Connor free

80
00:04:00,240 --> 00:03:57,430
sort of science fiction fantasy

81
00:04:02,960 --> 00:04:00,250
convention for writers and authors in

82
00:04:05,729 --> 00:04:02,970
Sydney and more information about that

83
00:04:07,530 --> 00:04:05,739
so a little bit of an abbreviated show

84
00:04:09,900 --> 00:04:07,540
this week because I'm on the road I'm

85
00:04:12,509 --> 00:04:09,910
pretty busy making sure all the racing

86
00:04:16,500 --> 00:04:12,519
cars have cameras whirring away inside

87
00:04:18,539 --> 00:04:16,510
getting some work done so while I have a

88
00:04:20,940 --> 00:04:18,549

look around me now maybe have a nice

89

00:04:50,550 --> 00:04:20,950

cool drink of water because it's a hot

90

00:04:57,970 --> 00:04:54,070

as published on the conversation calm on

91

00:05:01,720 --> 00:04:57,980

the top of September 2014 by Michael bag

92

00:05:04,330 --> 00:05:01,730

our pharmacists as trustworthy as they'd

93

00:05:06,520 --> 00:05:04,340

like us to believe pharmacists are

94

00:05:08,590 --> 00:05:06,530

continuously held up as among the most

95

00:05:10,960 --> 00:05:08,600

respected and trusted of professionals

96

00:05:12,580 --> 00:05:10,970

they fulfill an important role within

97

00:05:15,520 --> 00:05:12,590

the Health Professions of being the

98

00:05:18,070 --> 00:05:15,530

gatekeepers of medication dispensing and

99

00:05:21,160 --> 00:05:18,080

the link between the community and their

100

00:05:22,990 --> 00:05:21,170

medication use for more than 100 years

101
00:05:25,060 --> 00:05:23,000
there has been a very clear and ethical

102
00:05:27,550 --> 00:05:25,070
distinction between doctors who

103
00:05:30,210 --> 00:05:27,560
prescribe medications and pharmacists

104
00:05:32,590 --> 00:05:30,220
who sell them that way the argument goes

105
00:05:34,920 --> 00:05:32,600
doctors have no direct financial

106
00:05:37,000 --> 00:05:34,930
interest in the drugs they prescribe and

107
00:05:39,070 --> 00:05:37,010
pharmacists have no direct financial

108
00:05:41,320 --> 00:05:39,080
interest in recommending any of the

109
00:05:43,990 --> 00:05:41,330
drugs on their shelves directly to

110
00:05:46,990 --> 00:05:44,000
patients so far so good there has been a

111
00:05:49,120 --> 00:05:47,000
bit of a role creep over the years with

112
00:05:51,670 --> 00:05:49,130
calls from some doctors to be allowed to

113
00:05:54,340 --> 00:05:51,680

sell their own concoctions directly to

114

00:05:57,130 --> 00:05:54,350

their patients as well as a much more

115

00:05:59,680 --> 00:05:57,140

concerted push by pharmacists to play a

116

00:06:01,360 --> 00:05:59,690

bigger role in health care including

117

00:06:03,760 --> 00:06:01,370

providing immunizations and health

118

00:06:06,370 --> 00:06:03,770

checks direct to consumers naturally

119

00:06:09,010 --> 00:06:06,380

this is of concern to GPS as such

120

00:06:11,650 --> 00:06:09,020

proposals have the potential to fragment

121

00:06:13,330 --> 00:06:11,660

primary health care even further not to

122

00:06:15,460 --> 00:06:13,340

mention taking the critical role of

123

00:06:17,100 --> 00:06:15,470

diagnosis putting it into the hands of

124

00:06:20,020 --> 00:06:17,110

those who are under qualified

125

00:06:22,510 --> 00:06:20,030

underinsured and under supported to

126
00:06:24,610 --> 00:06:22,520
handle it what concerns me particularly

127
00:06:27,700 --> 00:06:24,620
is not so much that these health checks

128
00:06:29,620 --> 00:06:27,710
will take away work from GPS if anything

129
00:06:32,290 --> 00:06:29,630
I suspect that will increase GPS

130
00:06:34,530 --> 00:06:32,300
workloads sorting out the advice already

131
00:06:37,270 --> 00:06:34,540
given to patients by one of EGP

132
00:06:40,060 --> 00:06:37,280
enthusiasts like pharmacists and their

133
00:06:42,070 --> 00:06:40,070
associated naturopaths this month

134
00:06:44,740 --> 00:06:42,080
skeptical magazine from Australian

135
00:06:47,050 --> 00:06:44,750
skeptics highlights the problems quite

136
00:06:48,790 --> 00:06:47,060
well I think it's time for pharmacists

137
00:06:51,219 --> 00:06:48,800
to decide if they want to keep the trust

138
00:06:53,800 --> 00:06:51,229

placed in them by the community to give

139

00:06:56,080 --> 00:06:53,810

sound advice if they want to remain at

140

00:06:58,629 --> 00:06:56,090

trusted source of advice they need to

141

00:07:01,720 --> 00:06:58,639

lift their game and get all the ear

142

00:07:04,420 --> 00:07:01,730

candles homeopathy magnets herbs and

143

00:07:06,790 --> 00:07:04,430

supplements out of their shops along

144

00:07:09,040 --> 00:07:06,800

with the euro-dollar jests and their

145

00:07:11,740 --> 00:07:09,050

other fairground quote health

146

00:07:13,750 --> 00:07:11,750

professionals end quote in short they

147

00:07:16,540 --> 00:07:13,760

need to start acting like they deserve

148

00:07:18,430 --> 00:07:16,550

the trust and respect that has accorded

149

00:07:20,890 --> 00:07:18,440

them we have heard nothing from the

150

00:07:23,890 --> 00:07:20,900

training and CPD requirements for

151
00:07:26,500 --> 00:07:23,900
pharmacists who want to diagnose and

152
00:07:28,870 --> 00:07:26,510
treat patients let alone how they will

153
00:07:32,140 --> 00:07:28,880
be insured I would want to see all this

154
00:07:34,450 --> 00:07:32,150
detail before I let my crew p baby or

155
00:07:37,090 --> 00:07:34,460
breathless grandmother within a bulls

156
00:07:39,460 --> 00:07:37,100
roar of a pharmacist diagnosis skills

157
00:07:41,980 --> 00:07:39,470
the protectionism involved in a business

158
00:07:44,350 --> 00:07:41,990
of running pharmacies is breathtaking

159
00:07:46,240 --> 00:07:44,360
like dentists only pharmacists are

160
00:07:49,330 --> 00:07:46,250
legally allowed to profit from running

161
00:07:52,060 --> 00:07:49,340
pharmacies and they have defended this

162
00:07:54,640 --> 00:07:52,070
with all the bitterness and vitriol you

163
00:07:56,320 --> 00:07:54,650

might expect from a group who know they

164

00:07:58,630 --> 00:07:56,330

are on to a good thing Health Minister

165

00:08:01,000 --> 00:07:58,640

Peter Dutton seems all for the

166

00:08:04,000 --> 00:08:01,010

pharmacists ambitions and has been on

167

00:08:06,430 --> 00:08:04,010

the medical trail vowing not to whine

168

00:08:08,290 --> 00:08:06,440

back they're protected status so it

169

00:08:11,050 --> 00:08:08,300

seems the pharmacist will have all they

170

00:08:13,029 --> 00:08:11,060

want I wonder if they deserve it I hope

171

00:08:15,460 --> 00:08:13,039

they take the opportunity to lift their

172

00:08:18,040 --> 00:08:15,470

game as a profession and use their

173

00:08:20,770 --> 00:08:18,050

protected status to raise standards not

174

00:08:23,230 --> 00:08:20,780

profits a good place to start would be

175

00:08:25,270 --> 00:08:23,240

to stop advertising and selling shonky

176

00:08:27,219 --> 00:08:25,280

devices and products that would be

177

00:08:30,100 --> 00:08:27,229

considered fraudulent in any other

178

00:08:36,410 --> 00:08:30,110

context too hard then get out of the

179

00:08:42,620 --> 00:08:39,630

from Australian skeptics an open letter

180

00:08:44,580 --> 00:08:42,630

to the pharmacist of Australia

181

00:08:47,160 --> 00:08:44,590

Australians trust pharmacies and

182

00:08:49,560 --> 00:08:47,170

chemists shops as pharmacists you play

183

00:08:51,780 --> 00:08:49,570

an important role in the health of the

184

00:08:54,390 --> 00:08:51,790

Australian public by functioning as a

185

00:08:57,180 --> 00:08:54,400

conduit between doctors and prescription

186

00:08:59,610 --> 00:08:57,190

or pharmaceutical drugs you also have a

187

00:09:01,560 --> 00:08:59,620

respected role as a first resource for

188

00:09:03,870 --> 00:09:01,570

medical advice for many people in our

189

00:09:07,590 --> 00:09:03,880

community we are all familiar with the

190

00:09:10,110 --> 00:09:07,600

slogan ask your pharmacist when we asked

191

00:09:12,510 --> 00:09:10,120

our pharmacist what kind of answers do

192

00:09:14,790 --> 00:09:12,520

we want not quite products like ear

193

00:09:17,670 --> 00:09:14,800

candles that do nothing except pose a

194

00:09:20,550 --> 00:09:17,680

health hazard we now ask our Australian

195

00:09:22,680 --> 00:09:20,560

pharmacist what standards should you set

196

00:09:24,480 --> 00:09:22,690

for yourselves you sell a growing number

197

00:09:26,610 --> 00:09:24,490

of products for which there is very

198

00:09:29,460 --> 00:09:26,620

little or no scientific evidence of

199

00:09:31,940 --> 00:09:29,470

efficacy calling them quote alternative

200

00:09:34,290 --> 00:09:31,950

end quote does not make them work

201

00:09:36,450 --> 00:09:34,300

examples include homeopathic

202

00:09:39,600 --> 00:09:36,460

preparations magnetic pain relief

203

00:09:43,530 --> 00:09:39,610

devices detox programs dodgy weight loss

204

00:09:46,260 --> 00:09:43,540

products and ear candles such products

205

00:09:48,300 --> 00:09:46,270

commonly appear in the quote natural

206

00:09:50,250 --> 00:09:48,310

medicine and quote section of pharmacies

207

00:09:52,740 --> 00:09:50,260

but as sometimes displayed alongside

208

00:09:55,830 --> 00:09:52,750

real medicines whose benefits are

209

00:09:58,320 --> 00:09:55,840

scientifically proven ear candles are of

210

00:10:00,450 --> 00:09:58,330

particular concern there are reports of

211

00:10:03,000 --> 00:10:00,460

serious injuries from them including

212

00:10:05,970 --> 00:10:03,010

temporary hearing loss burns ear canals

213

00:10:08,700 --> 00:10:05,980

blocked by dripping wax and punctured

214

00:10:10,980 --> 00:10:08,710

eardrums Health Canada has banned them

215

00:10:12,690 --> 00:10:10,990

in Canada even the first professor of

216

00:10:15,450 --> 00:10:12,700

alternative and complementary medicine

217

00:10:17,870 --> 00:10:15,460

at Exeter University at said Ernst calls

218

00:10:20,250 --> 00:10:17,880

for them to be banned despite this many

219

00:10:22,290 --> 00:10:20,260

Australian pharmacies are selling them

220

00:10:25,140 --> 00:10:22,300

what next we start selling cigarettes

221

00:10:26,480 --> 00:10:25,150

like supermarkets who you do not want to

222

00:10:28,950 --> 00:10:26,490

be allowed to sell pharmaceuticals

223

00:10:31,230 --> 00:10:28,960

because they do not have qualified staff

224

00:10:34,440 --> 00:10:31,240

what standards do you set for yourself

225

00:10:36,810 --> 00:10:34,450

and your staff we see a growing trend of

226
00:10:39,270 --> 00:10:36,820
so-called quote practitioners end quote

227
00:10:42,420 --> 00:10:39,280
with little or no scientific training

228
00:10:45,180 --> 00:10:42,430
being brought in as quote consultants

229
00:10:48,570 --> 00:10:45,190
including iridology homeopaths and

230
00:10:50,670 --> 00:10:48,580
naturopaths iridology is a discredited

231
00:10:53,220 --> 00:10:50,680
way of diagnosing the dysfunction of

232
00:10:55,860 --> 00:10:53,230
internal organs via markings on the iris

233
00:10:57,750 --> 00:10:55,870
there is no evidence that it works but

234
00:11:00,630 --> 00:10:57,760
some pharmacies promote the fact that

235
00:11:03,720 --> 00:11:00,640
customers can get quote readings and

236
00:11:06,420 --> 00:11:03,730
quote in their stores your customers

237
00:11:08,280 --> 00:11:06,430
rely on you and anyone in a professional

238
00:11:11,610 --> 00:11:08,290

capacity within your store to provide

239

00:11:13,199 --> 00:11:11,620

sound medical advice and products we

240

00:11:15,780 --> 00:11:13,209

fear in some cases they are receiving

241

00:11:18,230 --> 00:11:15,790

what amounts to little more than magical

242

00:11:20,940 --> 00:11:18,240

sugar pills and bad health advice

243

00:11:22,800 --> 00:11:20,950

pharmacies need to make a profit but

244

00:11:25,889 --> 00:11:22,810

this should not be done through quack

245

00:11:27,930 --> 00:11:25,899

products and bad advice to regain the

246

00:11:29,790 --> 00:11:27,940

status of pharmacy should have a place

247

00:11:31,500 --> 00:11:29,800

to get good sound advice and effective

248

00:11:34,170 --> 00:11:31,510

medicine supported by science and

249

00:11:36,870 --> 00:11:34,180

clinical evidence we implore our

250

00:11:41,070 --> 00:11:36,880

pharmacies to stick to worthy products

251
00:11:53,100 --> 00:11:41,080
sold by knowledgeable staff Australian

252
00:11:57,940 --> 00:11:55,690
did you see that UFO sighting that made

253
00:11:59,650 --> 00:11:57,950
the news what did that latest study

254
00:12:02,080 --> 00:11:59,660
about alternative treatments really say

255
00:12:05,020 --> 00:12:02,090
is this photo making the rounds real or

256
00:12:06,910 --> 00:12:05,030
hoax doubtful news is a unique website

257
00:12:09,040 --> 00:12:06,920
featuring news about pseudoscience the

258
00:12:10,770 --> 00:12:09,050
paranormal anomalies and questionable

259
00:12:13,720 --> 00:12:10,780
claims framed with the skeptical view

260
00:12:15,480 --> 00:12:13,730
come visit doubtful newscom every day

261
00:12:19,210 --> 00:12:15,490
for news about cryptozoology

262
00:12:22,120 --> 00:12:19,220
conspiracies shams scams and more follow

263
00:12:23,680 --> 00:12:22,130

us on twitter at doubtful news critical

264

00:12:25,960 --> 00:12:23,690

thinking is essential in assessing

265

00:12:36,560 --> 00:12:25,970

today's news duffel news helps you

266

00:12:48,420 --> 00:12:40,210

what we want is some more evidence piece

267

00:12:57,030 --> 00:12:54,660

hello this is Joe alabasta preliminary

268

00:12:59,180 --> 00:12:57,040

research presented this year's Council

269

00:13:01,920 --> 00:12:59,190

of State and territorial epidemiologists

270

00:13:04,050 --> 00:13:01,930

conference in the US which looked at the

271

00:13:06,210 --> 00:13:04,060

rising issue of parents refusing vitamin

272

00:13:08,699 --> 00:13:06,220

K shots for their newborns has shown the

273

00:13:12,870 --> 00:13:08,709

correlation between vitamin K refusal

274

00:13:15,030 --> 00:13:12,880

and vaccine refusal vitamin K is needed

275

00:13:16,769 --> 00:13:15,040

by humans to allow complete synthesis of

276

00:13:19,470 --> 00:13:16,779

proteins that we use for blood

277

00:13:21,389 --> 00:13:19,480

coagulation without it we're at risk of

278

00:13:23,040 --> 00:13:21,399

blood clotting issues ranging from

279

00:13:26,670 --> 00:13:23,050

bruising to severe bleeding and

280

00:13:28,230 --> 00:13:26,680

hemorrhagic disease healthy adults and

281

00:13:31,110 --> 00:13:28,240

older children are able to maintain

282

00:13:33,449 --> 00:13:31,120

adequate vitamin K levels in part via

283

00:13:35,760 --> 00:13:33,459

their diet but predominantly because

284

00:13:38,940 --> 00:13:35,770

vitamin K is produced by bacteria in the

285

00:13:41,639 --> 00:13:38,950

gut newborn babies however are born with

286

00:13:43,019 --> 00:13:41,649

a sterile gut the gut biome is not yet

287

00:13:46,470 --> 00:13:43,029

in place to assist in maintaining

288

00:13:47,970 --> 00:13:46,480

vitamin K levels vitamin K is not

289

00:13:50,280 --> 00:13:47,980

sufficiently present in the baby's

290

00:13:53,130 --> 00:13:50,290

system as it has trouble passing through

291

00:13:55,110 --> 00:13:53,140

the placenta in utero as such babies

292

00:13:58,800 --> 00:13:55,120

have very little vitamin K in their

293

00:14:01,050 --> 00:13:58,810

bodies at Birth there is very little

294

00:14:02,940 --> 00:14:01,060

vitamin K and breast milk and it can

295

00:14:05,220 --> 00:14:02,950

take breastfed babies several weeks to

296

00:14:08,730 --> 00:14:05,230

establish and maintain a gut biome which

297

00:14:10,829 --> 00:14:08,740

produces sufficient vitamin K modern

298

00:14:13,350 --> 00:14:10,839

baby formulas are fortified with vitamin

299

00:14:16,110 --> 00:14:13,360

K so formula fed babies can be quicker

300

00:14:18,630 --> 00:14:16,120

to establish their vitamin K levels all

301
00:14:20,640 --> 00:14:18,640
babies however can have the absorption

302
00:14:23,160 --> 00:14:20,650
of vitamin K and the development of a

303
00:14:25,410 --> 00:14:23,170
balanced gut biome interrupted if they

304
00:14:27,930 --> 00:14:25,420
experience digestive disturbances such

305
00:14:30,810 --> 00:14:27,940
as vomiting or diarrhea if they require

306
00:14:34,740 --> 00:14:30,820
antibiotics or if they have affected by

307
00:14:36,750 --> 00:14:34,750
liver disease oh point two five to one

308
00:14:38,610 --> 00:14:36,760
point seven percent of babies who do not

309
00:14:40,790 --> 00:14:38,620
receive a vitamin K shot at birth

310
00:14:43,500 --> 00:14:40,800
develop classic vitamin K deficiency

311
00:14:46,590 --> 00:14:43,510
bleeding which is fortunately rarely

312
00:14:49,680 --> 00:14:46,600
fatal late vitamin K deficiency bleeding

313
00:14:51,420 --> 00:14:49,690

is rarer affecting 427 of every hundred

314

00:14:53,389 --> 00:14:51,430

thousand infants who haven't had the

315

00:14:55,530 --> 00:14:53,399

shot but much more dangerous

316

00:14:57,840 --> 00:14:55,540

hemorrhaging nearly always occurs in

317

00:15:00,030 --> 00:14:57,850

babies brains around twenty percent of

318

00:15:01,519 --> 00:15:00,040

affected babies die and fifty percent

319

00:15:05,329 --> 00:15:01,529

sustain long-term

320

00:15:07,460 --> 00:15:05,339

image as such or newborn babies in

321

00:15:10,179 --> 00:15:07,470

Australia are offered a vitamin K shot

322

00:15:12,559 --> 00:15:10,189

at birth as a prophylactic measure an

323

00:15:15,319 --> 00:15:12,569

alternative to injection is available

324

00:15:18,439 --> 00:15:15,329

oral vitamin K drops administered three

325

00:15:20,960 --> 00:15:18,449

times once at birth once at three to

326
00:15:23,840 --> 00:15:20,970
five days of age and once again at four

327
00:15:25,850 --> 00:15:23,850
weeks of age due to the sometimes

328
00:15:28,699 --> 00:15:25,860
fluctuating efficacy of baby's digestive

329
00:15:30,410 --> 00:15:28,709
systems the potential for missed doses

330
00:15:32,420 --> 00:15:30,420
and the longer time it takes for all

331
00:15:34,549 --> 00:15:32,430
doses to be complete the oral

332
00:15:37,160 --> 00:15:34,559
administration of vitamin K is less

333
00:15:38,629 --> 00:15:37,170
reliable than injection and is not

334
00:15:41,179 --> 00:15:38,639
recommended for babies who have

335
00:15:44,809 --> 00:15:41,189
digestive issues are premature or are

336
00:15:47,179 --> 00:15:44,819
unwell there are no documented adverse

337
00:15:50,749 --> 00:15:47,189
effects resulting from vitamin K shots

338
00:15:52,970 --> 00:15:50,759

however in the early 1990s two studies

339

00:15:56,150 --> 00:15:52,980

suggested a causal link between vitamin

340

00:15:57,949 --> 00:15:56,160

K shots and childhood cancers these

341

00:15:59,840 --> 00:15:57,959

studies were discredited due to poor

342

00:16:02,059 --> 00:15:59,850

methods and small sample sizes and

343

00:16:04,610 --> 00:16:02,069

subsequent reviews of firm no similar

344

00:16:06,710 --> 00:16:04,620

links unfortunately the discredited

345

00:16:09,650 --> 00:16:06,720

studies of hung around gaining credence

346

00:16:12,049 --> 00:16:09,660

in certain circles much like Wakefield's

347

00:16:17,329 --> 00:16:12,059

discredited paper linking autism to the

348

00:16:19,340 --> 00:16:17,339

MMR vaccine onto the news rates of

349

00:16:21,860 --> 00:16:19,350

vitamin K shot refusal have been rising

350

00:16:24,019 --> 00:16:21,870

in the US according to a report in the

351
00:16:26,540 --> 00:16:24,029
journal Pediatrics the rate of refusal

352
00:16:29,749 --> 00:16:26,550
has almost doubled in Alberta from point

353
00:16:33,439 --> 00:16:29,759
to one percent in 2006 20 point three

354
00:16:35,329 --> 00:16:33,449
nine percent in 2012 prompted by the

355
00:16:36,819 --> 00:16:35,339
death of four babies in Nashville who

356
00:16:39,049 --> 00:16:36,829
developed a late vitamin K deficiency

357
00:16:41,360 --> 00:16:39,059
bleeding after their parents declined

358
00:16:43,309 --> 00:16:41,370
the shot a team of researchers looked

359
00:16:45,860 --> 00:16:43,319
into vitamin K refusal rates and

360
00:16:48,019 --> 00:16:45,870
parental attitudes presenting their

361
00:16:49,480 --> 00:16:48,029
preliminary findings at the Council of

362
00:16:52,040 --> 00:16:49,490
State and territorial epidemiologists

363
00:16:55,939 --> 00:16:52,050

conference in nashville tennessee last

364

00:16:58,189 --> 00:16:55,949

june of babies born in 2013 at a

365

00:17:03,259 --> 00:16:58,199

Nashville Children's Hospital the rate

366

00:17:05,329 --> 00:17:03,269

of shot refusal was 2.7% the team also

367

00:17:07,850 --> 00:17:05,339

looked at the rate of refusal across

368

00:17:10,189 --> 00:17:07,860

five freestanding birthing centers which

369

00:17:13,949 --> 00:17:10,199

was substantially higher at twenty-eight

370

00:17:15,840 --> 00:17:13,959

percent parent

371

00:17:17,760 --> 00:17:15,850

who refused the vitamin K shot for the

372

00:17:20,159 --> 00:17:17,770

newborns were invited to participate in

373

00:17:22,980 --> 00:17:20,169

a survey on their attitudes towards the

374

00:17:26,159 --> 00:17:22,990

vitamin K shot forty-seven percent of

375

00:17:28,860 --> 00:17:26,169

these parents responded the leading

376

00:17:30,659 --> 00:17:28,870

reasons given for refusal were a desire

377

00:17:34,580 --> 00:17:30,669

for a natural birthing process and

378

00:17:37,710 --> 00:17:34,590

relieving prophylaxis was unnecessary of

379

00:17:40,019 --> 00:17:37,720

the survey respondents sixty-five

380

00:17:43,380 --> 00:17:40,029

percent also refused the hepatitis B

381

00:17:45,180 --> 00:17:43,390

vaccine and erythromycin I augment which

382

00:17:47,370 --> 00:17:45,190

has routinely given to newborns in the

383

00:17:51,299 --> 00:17:47,380

US as a preventive measure against I

384

00:17:53,340 --> 00:17:51,309

infections mothers who refused the shot

385

00:17:55,740 --> 00:17:53,350

will more likely to have epidural free

386

00:17:58,500 --> 00:17:55,750

vaginal deliveries and babies delivered

387

00:18:00,450 --> 00:17:58,510

by midwives were eight times less likely

388

00:18:03,360 --> 00:18:00,460

to receive vitamin K than babies

389

00:18:05,850 --> 00:18:03,370

delivered by doctors here's an

390

00:18:08,010 --> 00:18:05,860

interesting statistic the children of

391

00:18:10,769 --> 00:18:08,020

parents who declined the vitamin K shot

392

00:18:13,409 --> 00:18:10,779

a 15 times more likely than other

393

00:18:16,230 --> 00:18:13,419

children to have received no vaccines by

394

00:18:17,460 --> 00:18:16,240

the time they're 15 months old this is

395

00:18:19,799 --> 00:18:17,470

the first time that a link has been

396

00:18:23,279 --> 00:18:19,809

demonstrated between vaccine refusal and

397

00:18:26,430 --> 00:18:23,289

vitamin K refusal from the preliminary

398

00:18:28,649 --> 00:18:26,440

findings quote this group of parents

399

00:18:30,510 --> 00:18:28,659

often shares a particular worldview of

400

00:18:32,610 --> 00:18:30,520

health that includes a preference for

401
00:18:34,620 --> 00:18:32,620
natural health remedies and questions

402
00:18:36,690 --> 00:18:34,630
the standard recommended practices of

403
00:18:40,680 --> 00:18:36,700
established medical authorities and

404
00:18:42,930 --> 00:18:40,690
quote there is a crucial difference

405
00:18:46,049 --> 00:18:42,940
between vaccine refusal and vitamin K

406
00:18:48,720 --> 00:18:46,059
refusal however a parent who initially

407
00:18:50,700 --> 00:18:48,730
refuses vaccines then has a change of

408
00:18:52,680 --> 00:18:50,710
mind is able to put their child on a

409
00:18:55,769 --> 00:18:52,690
catch-up schedule providing them with

410
00:18:57,600 --> 00:18:55,779
protection for the future unfortunately

411
00:18:59,940 --> 00:18:57,610
though there is no catch up schedule for

412
00:19:02,190 --> 00:18:59,950
vitamin K shots given the small window

413
00:19:04,350 --> 00:19:02,200

of time for bleeding risk vitamin K

414

00:19:26,570 --> 00:19:04,360

refusal presents a very immediate danger

415

00:19:30,690 --> 00:19:29,070

hey this is Jay novella from the

416

00:19:32,610 --> 00:19:30,700

skeptics guide to the universe podcast

417

00:19:34,470 --> 00:19:32,620

did you know that there are thousands of

418

00:19:36,180 --> 00:19:34,480

skeptical reports interviews and

419

00:19:38,910 --> 00:19:36,190

investigations going back to nineteen

420

00:19:42,150 --> 00:19:38,920

eighty one free to download just visit w

421

00:19:44,070 --> 00:19:42,160

WC empathic CoA you click the

422

00:19:46,050 --> 00:19:44,080

publications link and enjoy almost every

423

00:19:48,000 --> 00:19:46,060

back issue of the skeptic the journal

424

00:19:49,560 --> 00:19:48,010

from Australian skeptics you can also

425

00:19:51,840 --> 00:19:49,570

subscribe online and get the latest

426

00:19:53,850 --> 00:19:51,850

digital or hard copy of this the world's

427

00:19:57,720 --> 00:19:53,860

second oldest skeptical magazine that's

428

00:20:10,920 --> 00:19:57,730

ww skeptics com au or just Google

429

00:20:13,020 --> 00:20:10,930

Australian skeptics welcome to a week in

430

00:20:15,060 --> 00:20:13,030

science from rars bringing you the

431

00:20:16,410 --> 00:20:15,070

science you need to know the Ebola

432

00:20:18,450 --> 00:20:16,420

outbreaks you've seen in the movies

433

00:20:20,760 --> 00:20:18,460

might scare the daylights out of you but

434

00:20:29,890 --> 00:20:20,770

how realistic are they what is a bowler

435

00:20:34,640 --> 00:20:32,270

the proper name for the disease is a

436

00:20:37,610 --> 00:20:34,650

bowler hemorrhagic fever there are five

437

00:20:39,560 --> 00:20:37,620

strains of the disease the 2014 outbreak

438

00:20:41,450 --> 00:20:39,570

in West Africa is there's a year strain

439

00:20:43,880 --> 00:20:41,460

which is the most virulent form and

440

00:20:45,500 --> 00:20:43,890

comes from bats it is transmitted by

441

00:20:48,350 --> 00:20:45,510

direct contact with infected bodily

442

00:20:51,230 --> 00:20:48,360

fluids such as blood sweat tears saliva

443

00:20:52,790 --> 00:20:51,240

or vomit it can even be carried in semen

444

00:20:55,190 --> 00:20:52,800

up to seven weeks after the infection

445

00:20:57,890 --> 00:20:55,200

has cleared fatality rates of Ebola in

446

00:20:59,870 --> 00:20:57,900

humans can be as high as 90 percent it

447

00:21:01,910 --> 00:20:59,880

normally causes death by lowering blood

448

00:21:03,950 --> 00:21:01,920

pressure causing organs to fail and

449

00:21:05,840 --> 00:21:03,960

weakening the immune system so while

450

00:21:08,030 --> 00:21:05,850

there is currently no proven vaccine or

451
00:21:09,920 --> 00:21:08,040
cure death rates can be reduced by

452
00:21:11,420 --> 00:21:09,930
treating the dehydration and using

453
00:21:15,560 --> 00:21:11,430
antibiotics to treat secondary

454
00:21:17,870 --> 00:21:15,570
infections symptoms generally appear in

455
00:21:20,030 --> 00:21:17,880
eight to ten days after infection but in

456
00:21:21,680 --> 00:21:20,040
some cases can take up to three weeks to

457
00:21:23,390 --> 00:21:21,690
appear meaning someone could have

458
00:21:26,000 --> 00:21:23,400
infected lots of people before they even

459
00:21:28,130 --> 00:21:26,010
know they have Ebola even then the early

460
00:21:30,590 --> 00:21:28,140
symptoms can seem innocuous such as red

461
00:21:32,510 --> 00:21:30,600
eyes or a rash symptoms developed to

462
00:21:34,850 --> 00:21:32,520
include a high fever severe headache

463
00:21:36,890 --> 00:21:34,860

muscle pain vomiting diarrhea and

464

00:21:39,530 --> 00:21:36,900

unexplained bleeding or bruising

465

00:21:41,990 --> 00:21:39,540

outbreaks often occur in warm areas like

466

00:21:44,300 --> 00:21:42,000

West Africa this heat can affect health

467

00:21:46,640 --> 00:21:44,310

workers focus increasing the chance of

468

00:21:48,560 --> 00:21:46,650

accidental infection to combat this they

469

00:21:50,270 --> 00:21:48,570

generally work in pairs and for no more

470

00:21:53,690 --> 00:21:50,280

than 40 minutes at a time in the bio

471

00:21:56,060 --> 00:21:53,700

safety equipment and now for fast facts

472

00:21:59,609 --> 00:21:56,070

about Ebola

473

00:22:01,529 --> 00:21:59,619

Ebola was first identified in 1976 and

474

00:22:03,450 --> 00:22:01,539

it's named after the Ebola river where

475

00:22:05,549 --> 00:22:03,460

one of the first outbreaks was recorded

476
00:22:07,680 --> 00:22:05,559
you know in movies where patients spew

477
00:22:09,749 --> 00:22:07,690
blood and bleed to death that's a bit of

478
00:22:12,239 --> 00:22:09,759
a myth Ebola isn't as dramatic as that

479
00:22:14,970 --> 00:22:12,249
and patients mainly just look sick or

480
00:22:17,070 --> 00:22:14,980
weak the Ebola virus is transmitted to

481
00:22:19,680 --> 00:22:17,080
humans from wild animals particularly

482
00:22:22,320 --> 00:22:19,690
fruit bats which are a popular bush meat

483
00:22:24,659 --> 00:22:22,330
and there may be hope for a vaccine with

484
00:22:26,489 --> 00:22:24,669
human trials underway in America that's

485
00:22:28,680 --> 00:22:26,499
it for this week in science for more

486
00:22:33,330 --> 00:22:28,690
information on Ebola go to the rous

487
00:22:35,279 --> 00:22:33,340
website I I a USC org a you follow us on

488
00:22:38,129 --> 00:22:35,289

twitter at our iOS and like us on

489

00:22:55,259 --> 00:22:38,139

Facebook I'm Alison Kershaw and we'll

490

00:22:57,269 --> 00:22:55,269

catch you next week rusty Brucie I mean

491

00:22:59,609 --> 00:22:57,279

as a video fear of Islamic law be so

492

00:23:01,830 --> 00:22:59,619

skeptical Mousavi was not just a shikara

493

00:23:03,539 --> 00:23:01,840

prohodit cars the divinity of austria it

494

00:23:05,669 --> 00:23:03,549

algebra grampa tsuchikage podcast

495

00:23:07,649 --> 00:23:05,679

Petrova hooded garden engine but Gospels

496

00:23:10,019 --> 00:23:07,659

White's escaped aside a cutter bombers

497

00:23:14,999 --> 00:23:10,029

was not initiated st at a wave over

498

00:23:16,409 --> 00:23:15,009

skeptics society Rajguru everybody my

499

00:23:18,509 --> 00:23:16,419

name is carol and i'm the founder of

500

00:23:20,460 --> 00:23:18,519

skeptics society russia come visit us

501
00:23:22,590 --> 00:23:20,470
and masculine our bi-weekly meetings and

502
00:23:24,330 --> 00:23:22,600
also since our weekly podcast which is

503
00:23:26,399 --> 00:23:24,340
called skeptic and the site where you

504
00:23:39,000 --> 00:23:26,409
can find all that this skeptics society

505
00:23:47,080 --> 00:23:43,659
here's my not spooky action at a

506
00:23:52,460 --> 00:23:50,029
well I'm here would joke but how are you

507
00:23:54,289 --> 00:23:52,470
today I'm very well matter and why do

508
00:23:58,460 --> 00:23:54,299
you think we should still be a skeptic

509
00:24:00,890 --> 00:23:58,470
in 2014 why should we still be one well

510
00:24:02,810 --> 00:24:00,900
I mean what is still to be done well

511
00:24:05,149 --> 00:24:02,820
there's plenty still to be done in fact

512
00:24:07,539 --> 00:24:05,159
there's probably more reason now for us

513
00:24:10,549 --> 00:24:07,549

to be skeptical than ever before because

514

00:24:12,710 --> 00:24:10,559

you know yeah we've gone through this

515

00:24:14,720 --> 00:24:12,720

period where we're now we've got access

516

00:24:16,789 --> 00:24:14,730

to so much information than we ever have

517

00:24:19,970 --> 00:24:16,799

before most of it is completely

518

00:24:21,620 --> 00:24:19,980

unfiltered and unchecked and and humans

519

00:24:24,289 --> 00:24:21,630

have not changed very much we're still

520

00:24:26,930 --> 00:24:24,299

just as flawed silly and gullible as we

521

00:24:30,350 --> 00:24:26,940

ever were and what lures got your goat

522

00:24:32,510 --> 00:24:30,360

recently oh I know it's usually pretty

523

00:24:35,120 --> 00:24:32,520

it's a very large Venn diagram a couple

524

00:24:36,860 --> 00:24:35,130

of the choose from look you know I never

525

00:24:39,889 --> 00:24:36,870

stray far away from the alternative

526

00:24:41,240 --> 00:24:39,899

medicines but these days I'm quite

527

00:24:43,970 --> 00:24:41,250

interested in traditional Chinese

528

00:24:45,649 --> 00:24:43,980

medicine because I think there's a quite

529

00:24:50,470 --> 00:24:45,659

a lot of risk of harm there when it's

530

00:24:53,480 --> 00:24:50,480

not when it's not sort of well well

531

00:24:55,190 --> 00:24:53,490

control and I think also because out of

532

00:24:56,600 --> 00:24:55,200

all the alternative medicines it's the

533

00:24:58,370 --> 00:24:56,610

one that has the greatest risk of harm

534

00:25:00,380 --> 00:24:58,380

not just to humans but also to all the

535

00:25:02,029 --> 00:25:00,390

endangered species so can I go down to

536

00:25:06,620 --> 00:25:02,039

Chinatown here and get myself a bit of a

537

00:25:08,389 --> 00:25:06,630

Fidra or not idea i don't know because i

538

00:25:09,529 --> 00:25:08,399

know they banned it in the US but he

539

00:25:10,940 --> 00:25:09,539

says you could probably go down to try

540

00:25:12,380 --> 00:25:10,950

to town to get just about anything you

541

00:25:14,149 --> 00:25:12,390

want because there was a strong

542

00:25:16,130 --> 00:25:14,159

political lobby with the chinese

543

00:25:17,630 --> 00:25:16,140

medicine that goes along with that and

544

00:25:19,639 --> 00:25:17,640

does that make it a bit more difficult

545

00:25:22,190 --> 00:25:19,649

to put a bit of weight behind it does

546

00:25:24,169 --> 00:25:22,200

very much so because of you know you can

547

00:25:26,180 --> 00:25:24,179

be seen sometimes if you're if you're

548

00:25:27,380 --> 00:25:26,190

criticizing chinese medicine or

549

00:25:29,240 --> 00:25:27,390

traditional chinese medicine i should

550

00:25:31,970 --> 00:25:29,250

say you could be seen as being

551
00:25:34,970 --> 00:25:31,980
culturally insensitive but you know

552
00:25:36,980 --> 00:25:34,980
ultimately if you go to China and you

553
00:25:38,419 --> 00:25:36,990
know sorry if you if you if you know the

554
00:25:40,370 --> 00:25:38,429
history of traditional Chinese medicine

555
00:25:42,529 --> 00:25:40,380
you'll know that in fact while people

556
00:25:44,169 --> 00:25:42,539
claim that a scopus this history that

557
00:25:46,789 --> 00:25:44,179
goes a thousands and thousands of years

558
00:25:50,320 --> 00:25:46,799
in fact it was brought back by Mao

559
00:25:54,070 --> 00:25:50,330
Zedong arm and when he was

560
00:25:55,960 --> 00:25:54,080
around as a way to provide medical care

561
00:25:57,970 --> 00:25:55,970
for the masses when they couldn't really

562
00:26:00,789 --> 00:25:57,980
afford to provide a good quality

563
00:26:03,490 --> 00:26:00,799

evidence based medicine that we that we

564

00:26:05,470 --> 00:26:03,500

know so you know it's the whole argument

565

00:26:08,860 --> 00:26:05,480

from antiquity it's been around forever

566

00:26:11,980 --> 00:26:08,870

so you know Austin it must be good but

567

00:26:13,659 --> 00:26:11,990

so many of the train eat Chinese

568

00:26:16,090 --> 00:26:13,669

medicines they can buy are adulterated

569

00:26:18,370 --> 00:26:16,100

with heavy metals as I said before

570

00:26:20,529 --> 00:26:18,380

there's a huge risk to endangered

571

00:26:22,930 --> 00:26:20,539

species because there's no there's no

572

00:26:23,950 --> 00:26:22,940

quality control with it so you don't

573

00:26:25,720 --> 00:26:23,960

even know how much of the active

574

00:26:28,000 --> 00:26:25,730

ingredient is in it if anything exactly

575

00:26:29,529 --> 00:26:28,010

and in fact just last week a report came

576

00:26:32,680 --> 00:26:29,539

out and then use about a woman down in

577

00:26:35,169 --> 00:26:32,690

Melbourne who ended up severely ill

578

00:26:37,590 --> 00:26:35,179

after she was prescribed some kind of

579

00:26:40,509 --> 00:26:37,600

traditional Chinese herbal remedy and

580

00:26:42,879 --> 00:26:40,519

she was given instructions on how to use

581

00:26:47,190 --> 00:26:42,889

it it boiled these herbs in her kitchen

582

00:26:49,210 --> 00:26:47,200

drank whatever sort of you know T or

583

00:26:51,460 --> 00:26:49,220

concoction came out of it and she ended

584

00:26:55,289 --> 00:26:51,470

up severely ill in intensive care i

585

00:26:57,279 --> 00:26:55,299

think it was as a result of this and yes

586

00:26:58,509 --> 00:26:57,289

let's just have it be shared out right

587

00:27:00,279 --> 00:26:58,519

now to all the nurses out there

588

00:27:02,620 --> 00:27:00,289

listening that are doing the good job in

589

00:27:04,870 --> 00:27:02,630

in the hospitals in the care places

590

00:27:06,370 --> 00:27:04,880

every day because i made a lot of like

591

00:27:07,899 --> 00:27:06,380

to give them a bit of a shout out get on

592

00:27:09,460 --> 00:27:07,909

yahoo sure yeah shout out to all the

593

00:27:11,590 --> 00:27:09,470

wonderful nurses out there doing an

594

00:27:13,600 --> 00:27:11,600

amazing job looking after patients and

595

00:27:14,799 --> 00:27:13,610

really what did you find them the most

596

00:27:16,990 --> 00:27:14,809

difficult thing about looking after

597

00:27:18,490 --> 00:27:17,000

patients in a hospital situation is it

598

00:27:20,110 --> 00:27:18,500

that they're cranky there's a

599

00:27:21,850 --> 00:27:20,120

psychological aspect to it or is it the

600

00:27:24,100 --> 00:27:21,860

physical aspect with the lifting of them

601
00:27:25,299 --> 00:27:24,110
or the ER key aspect because the things

602
00:27:27,639 --> 00:27:25,309
you have to do what's the most difficult

603
00:27:30,190 --> 00:27:27,649
part of the job for you look I haven't

604
00:27:31,899 --> 00:27:30,200
been on the wards for a long time these

605
00:27:34,750 --> 00:27:31,909
days I've got more medial ivory tower

606
00:27:36,820 --> 00:27:34,760
I've been by over each other yes so I

607
00:27:39,159 --> 00:27:36,830
work in clinical trials these days I'm

608
00:27:42,009 --> 00:27:39,169
behind a desk a lot of the time but

609
00:27:44,830 --> 00:27:42,019
ultimately you know I've always loved

610
00:27:46,659 --> 00:27:44,840
that the privilege I have of being able

611
00:27:47,799 --> 00:27:46,669
to look after patients will look out to

612
00:27:49,430 --> 00:27:47,809
people at a time when they're at the

613
00:27:51,499 --> 00:27:49,440

most vulnerable and

614

00:27:54,529 --> 00:27:51,509

you know something I've always said is

615

00:27:56,419 --> 00:27:54,539

that yeah for example being diagnosed

616

00:27:59,060 --> 00:27:56,429

with cancer doesn't suddenly make you a

617

00:28:00,740 --> 00:27:59,070

nice person so there are times when you

618

00:28:02,830 --> 00:28:00,750

could be looking after someone who has

619

00:28:04,730 --> 00:28:02,840

quite a challenging personality and

620

00:28:06,560 --> 00:28:04,740

maybe they're not being particularly

621

00:28:08,419 --> 00:28:06,570

nice to you and I think that one of the

622

00:28:10,369 --> 00:28:08,429

hardest things is you know when you've

623

00:28:13,700 --> 00:28:10,379

got a patient who maybe is being quite

624

00:28:15,789 --> 00:28:13,710

unpleasant is binding the way to kind of

625

00:28:18,139 --> 00:28:15,799

traverse the boundaries between

626

00:28:21,200 --> 00:28:18,149

recognizing that they are vulnerable and

627

00:28:23,060 --> 00:28:21,210

that you have a duty of care to them but

628

00:28:25,730 --> 00:28:23,070

at the same time making it clear that

629

00:28:27,919 --> 00:28:25,740

it's not acceptable to treat any any

630

00:28:31,519 --> 00:28:27,929

professional who's looking after you in

631

00:28:33,740 --> 00:28:31,529

a disrespectful way so so that will be

632

00:28:36,529 --> 00:28:33,750

come in handy in debates and during

633

00:28:39,830 --> 00:28:36,539

dating as well it's quite a handy skill

634

00:28:41,629 --> 00:28:39,840

to have well look it enjoy your trip

635

00:28:43,759 --> 00:28:41,639

down to me when you move when we lose

636

00:28:45,769 --> 00:28:43,769

you to South the southerners a couple of

637

00:28:47,389 --> 00:28:45,779

weeks left still you know wrapping

638

00:28:48,860 --> 00:28:47,399

things up in Sydney got a lot of a lot

639

00:28:51,440 --> 00:28:48,870

of things to do and people to say

640

00:28:52,820 --> 00:28:51,450

goodbye to but because you're pushing

641

00:28:53,990 --> 00:28:52,830

evidence-based Joe and everyone who

642

00:28:55,190 --> 00:28:54,000

knows you should get a chance to at

643

00:28:56,509 --> 00:28:55,200

least have a drink with it before you go

644

00:28:58,220 --> 00:28:56,519

which means you'll spend the entire time

645

00:29:00,560 --> 00:28:58,230

drunk before you leave which is like

646

00:29:02,090 --> 00:29:00,570

okay yeah but but to tell us what's the

647

00:29:04,100 --> 00:29:02,100

most exciting development in actual

648

00:29:05,330 --> 00:29:04,110

medicine that's on the horizon the

649

00:29:06,830 --> 00:29:05,340

obscene gee that looks pretty good

650

00:29:08,360 --> 00:29:06,840

because you read all the books you know

651
00:29:11,299 --> 00:29:08,370
all the big words you can actually

652
00:29:14,659 --> 00:29:11,309
navigate pubmed unlike myself I don't

653
00:29:16,340 --> 00:29:14,669
know the Missy even has been tricked you

654
00:29:21,289 --> 00:29:16,350
know so what do you think's really be I

655
00:29:22,789 --> 00:29:21,299
think that genetics and personalized

656
00:29:25,310 --> 00:29:22,799
medicine is one of the most exciting

657
00:29:26,450 --> 00:29:25,320
things that we have to look forward so

658
00:29:28,590 --> 00:29:26,460
you see we live in the world like

659
00:29:30,630 --> 00:29:28,600
gattaca do you want get again

660
00:29:33,930 --> 00:29:30,640
that's what you're talking I love that

661
00:29:35,220 --> 00:29:33,940
movie but no um no I think I think the

662
00:29:37,500 --> 00:29:35,230
most exciting thing is just the fact

663
00:29:39,240 --> 00:29:37,510

that you know treatments these days are

664

00:29:41,520 --> 00:29:39,250

becoming more and more and more targeted

665

00:29:42,780 --> 00:29:41,530

to the individual so as we're getting a

666

00:29:45,030 --> 00:29:42,790

better understanding of the human genome

667

00:29:47,180 --> 00:29:45,040

and of how different treatments can be

668

00:29:51,090 --> 00:29:47,190

tailored towards an individual's genetic

669

00:29:52,770 --> 00:29:51,100

makeup we're able to find incredible

670

00:29:54,210 --> 00:29:52,780

ways to treat diseases that we never

671

00:29:56,040 --> 00:29:54,220

would have thought possible we're going

672

00:29:57,840 --> 00:29:56,050

to hit a long way to go and the ethics

673

00:29:59,400 --> 00:29:57,850

around it are still you know in terms of

674

00:30:01,800 --> 00:29:59,410

anything to do with genetics and genetic

675

00:30:04,290 --> 00:30:01,810

testing and so on the huge ethical

676

00:30:06,600 --> 00:30:04,300

issues to debate and for society to

677

00:30:07,980 --> 00:30:06,610

consider but in terms of what we've got

678

00:30:10,860 --> 00:30:07,990

to look for so I think the future looks

679

00:30:13,140 --> 00:30:10,870

very bright sure we won't just gravitate

680

00:30:16,530 --> 00:30:13,150

towards regrowing here and making

681

00:30:19,140 --> 00:30:16,540

penises larger I suspect that that will

682

00:30:21,390 --> 00:30:19,150

definitely happen in fact I'll be

683

00:30:23,310 --> 00:30:21,400

checking my spam inbox when I get home

684

00:30:26,100 --> 00:30:23,320

and I'm sure I'll find a few things you

685

00:30:27,960 --> 00:30:26,110

enjoy your trip and pleated dunk over to

686

00:30:31,560 --> 00:30:27,970

the dark side of sport we mustn't lose

687

00:30:35,460 --> 00:30:31,570

you to spawn it'll never happen never I

688

00:30:37,290 --> 00:30:35,470

tried I can't do it well I'm here with a

689

00:30:39,060 --> 00:30:37,300

real troublemaker a real troublemaker a

690

00:30:42,270 --> 00:30:39,070

guy who you two of the world causing

691

00:30:44,400 --> 00:30:42,280

trouble who we got sir I'm Gary and I'm

692

00:30:46,490 --> 00:30:44,410

here I guess to try and tell people

693

00:30:49,470 --> 00:30:46,500

about a free science fiction convention

694

00:30:53,310 --> 00:30:49,480

which is taking place over the weekend

695

00:30:55,530 --> 00:30:53,320

of december five six and seven at a

696

00:30:58,020 --> 00:30:55,540

place called clinton park but why a

697

00:30:59,220 --> 00:30:58,030

science fiction festival at this place

698

00:31:02,300 --> 00:30:59,230

and what are you going to do is going to

699

00:31:05,210 --> 00:31:02,310

be a bunch of book will shatner be there

700

00:31:08,370 --> 00:31:05,220

he's not actually answering my emails ah

701
00:31:09,650 --> 00:31:08,380
bastard but he's possibly on an away

702
00:31:12,300 --> 00:31:09,660
mission somewhere doing something

703
00:31:15,450 --> 00:31:12,310
unbelievable if you catch his program on

704
00:31:16,860 --> 00:31:15,460
SPS at one thirty in the morning but why

705
00:31:18,660 --> 00:31:16,870
don't we get back to the freaking big

706
00:31:20,130 --> 00:31:18,670
yeah let's get back to this sort of

707
00:31:21,420 --> 00:31:20,140
science fiction here yes this sort of

708
00:31:23,820 --> 00:31:21,430
science fiction this is real science

709
00:31:26,580 --> 00:31:23,830
fiction now what we're going to be doing

710
00:31:29,220 --> 00:31:26,590
is in previous years I've run free

711
00:31:31,620 --> 00:31:29,230
concert bankstown North Sydney the

712
00:31:34,380 --> 00:31:31,630
Australian Museum the new south wales

713
00:31:36,420 --> 00:31:34,390

institute of technology but what we're

714

00:31:38,880 --> 00:31:36,430

likely to have is about a dozen science

715

00:31:41,110 --> 00:31:38,890

fiction and fantasy writers who will be

716

00:31:43,450 --> 00:31:41,120

on panels i'll be discussing there were

717

00:31:45,549 --> 00:31:43,460

and the progress of science fiction and

718

00:31:49,299 --> 00:31:45,559

fantasy publishing generally there will

719

00:31:52,030 --> 00:31:49,309

be a number of audience interest events

720

00:31:54,430 --> 00:31:52,040

which I call whiteboard as democracy

721

00:31:56,049 --> 00:31:54,440

where we'll have a whiteboard and you

722

00:31:58,120 --> 00:31:56,059

can write up a topic and depending on

723

00:31:59,920 --> 00:31:58,130

how many people sort of ticket circle it

724

00:32:01,690 --> 00:31:59,930

or whatever there's a possibility that

725

00:32:03,490 --> 00:32:01,700

that will be one of the afternoon topics

726

00:32:06,310 --> 00:32:03,500

on the Saturday or the Sunday this will

727

00:32:08,110 --> 00:32:06,320

not be a magnet for loonies will it well

728

00:32:09,940 --> 00:32:08,120

we don't get lunatic Lampton park they

729

00:32:11,920 --> 00:32:09,950

generally sort of get let's not bury

730

00:32:13,510 --> 00:32:11,930

north so this strikes me is something

731

00:32:15,850 --> 00:32:13,520

that would be good as your other ones

732

00:32:17,680 --> 00:32:15,860

have been for an up-and-coming author or

733

00:32:19,030 --> 00:32:17,690

someone who's may be experiencing even a

734

00:32:21,070 --> 00:32:19,040

bit of writer's block at the time being

735

00:32:22,990 --> 00:32:21,080

particularly because one of the features

736

00:32:25,030 --> 00:32:23,000

of this event will be a short story

737

00:32:27,669 --> 00:32:25,040

writing competition that will not only

738

00:32:31,030 --> 00:32:27,679

be judged by that whoever attends the

739

00:32:32,919 --> 00:32:31,040

freak on it will also provide anyone who

740

00:32:35,650 --> 00:32:32,929

cares to enter it with an opportunity

741

00:32:37,270 --> 00:32:35,660

for a bit of direct feedback and they

742

00:32:39,580 --> 00:32:37,280

can see what all the other stories are

743

00:32:41,110 --> 00:32:39,590

like they can possibly stand next to

744

00:32:42,940 --> 00:32:41,120

their story and sort of make veiled

745

00:32:45,400 --> 00:32:42,950

hints as to why this one is terrific and

746

00:32:46,870 --> 00:32:45,410

possibly be told by actual readers that

747

00:32:48,280 --> 00:32:46,880

now it's not that good because it

748

00:32:50,320 --> 00:32:48,290

doesn't make sense there and all that

749

00:32:51,549 --> 00:32:50,330

sort of thing so how would people find

750

00:32:53,049 --> 00:32:51,559

out about this online you've got a

751

00:32:55,210 --> 00:32:53,059

website as a place we and all gonna have

752

00:32:57,640 --> 00:32:55,220

a look at this pricing Lee we do have a

753

00:33:02,230 --> 00:32:57,650

website is in being created at the

754

00:33:04,900 --> 00:33:02,240

moment but you can write to me you know

755

00:33:06,640 --> 00:33:04,910

that old-fashioned sort of version of

756

00:33:08,500 --> 00:33:06,650

picking up a quill pen sharpening it

757

00:33:10,419 --> 00:33:08,510

dipping it in ink and let's face it if

758

00:33:12,370 --> 00:33:10,429

you're a writer you should at least be

759

00:33:15,610 --> 00:33:12,380

able to send a letter if you like you

760

00:33:20,010 --> 00:33:15,620

can write to me at local post office box

761

00:33:23,740 --> 00:33:20,020

for 15 to bexley north New South Wales

762

00:33:25,390 --> 00:33:23,750

2207 there will be a website up and

763

00:33:28,120 --> 00:33:25,400

running shortly that'll be loaded with

764

00:33:30,100 --> 00:33:28,130

stuff that you can download about it so

765

00:33:32,560 --> 00:33:30,110

put pen to paper find out more about it

766

00:33:34,150 --> 00:33:32,570

go along and become a better writer or

767

00:33:37,299 --> 00:33:34,160

at least be exposed to people who want

768

00:33:58,990 --> 00:33:37,309

to but that's a person enlightenment

769

00:34:02,240 --> 00:34:01,190

thank you for listening to the skeptic

770

00:34:05,750 --> 00:34:02,250

zone well it's still a hot afternoon

771

00:34:08,240 --> 00:34:05,760

here in Malibu South Australia why the

772

00:34:10,159 --> 00:34:08,250

the Racing crew and I have been in South

773

00:34:11,780 --> 00:34:10,169

Australia for this event we've been

774

00:34:14,570 --> 00:34:11,790

staying at a wonderful place called Lynn

775

00:34:16,790 --> 00:34:14,580

doc hill in the barossa valley now I

776

00:34:18,619 --> 00:34:16,800

don't run around normally on the skeptic

777

00:34:20,899 --> 00:34:18,629

zone promoting things and plugging

778

00:34:24,020 --> 00:34:20,909

things that aren't really do with

779

00:34:27,409 --> 00:34:24,030

skepticism sometimes but I must say that

780

00:34:29,810 --> 00:34:27,419

people at Linda Hill were wonderful

781

00:34:31,940 --> 00:34:29,820

hosts and looked after us very well

782

00:34:34,190 --> 00:34:31,950

indeed Lynn doc hill in the barossa

783

00:34:36,320 --> 00:34:34,200

valley and it's my first trip my first

784

00:34:40,339 --> 00:34:36,330

visit to the Barossa Valley a very

785

00:34:42,859 --> 00:34:40,349

famous wine centre wine area in

786

00:34:45,710 --> 00:34:42,869

Australia and it's just been a really

787

00:34:48,109 --> 00:34:45,720

wonderful wonderful experience to visit

788

00:34:50,899 --> 00:34:48,119

the area Thank You Linda hill for

789

00:34:54,470 --> 00:34:50,909

looking after us coming up on next

790

00:34:55,730 --> 00:34:54,480

week's show I have no idea that's one of

791

00:34:57,980 --> 00:34:55,740

the joys about doing the skeptics own

792

00:35:01,640 --> 00:34:57,990

folks I just sometimes I have no idea i

793

00:35:04,099 --> 00:35:01,650

think more and more runs to give with a

794

00:35:06,859 --> 00:35:04,109

grain of salt I think there are still a

795

00:35:10,430 --> 00:35:06,869

few more interviews to go from his visit

796

00:35:12,980 --> 00:35:10,440

to QED and speaking of QED and people I

797

00:35:15,470 --> 00:35:12,990

meet in QED of course the wonderful news

798

00:35:18,859 --> 00:35:15,480

is Michael Marshall who I met at that

799

00:35:21,020 --> 00:35:18,869

QED a good friend of mine is coming over

800

00:35:23,329 --> 00:35:21,030

for the Australian skeptics national

801
00:35:25,640 --> 00:35:23,339
convention at the end of november the

802
00:35:30,620 --> 00:35:25,650
lineup is looking so good the tickets

803
00:35:33,020 --> 00:35:30,630
are selling very well indeed wwc bacame

804
00:35:35,599 --> 00:35:33,030
you for all your Australian skeptics

805
00:35:37,700 --> 00:35:35,609
information and information about the

806
00:35:40,280 --> 00:35:37,710
upcoming convention looking forward to

807
00:35:45,380 --> 00:35:40,290
that and just on a personal note this is

808
00:35:46,940 --> 00:35:45,390
not the last week that I am president of

809
00:35:48,560 --> 00:35:46,950
Australian skeptics I've decided to I

810
00:35:50,990 --> 00:35:48,570
take a bit of a backseat for a little

811
00:35:52,339 --> 00:35:51,000
while that's alright that's fine i'm

812
00:35:53,870 --> 00:35:52,349
looking forward to that i'm still going

813
00:35:57,740 --> 00:35:53,880

to be very active of course but i just

814

00:36:00,940 --> 00:35:57,750

won't be the president oh well good luck

815

00:36:03,740 --> 00:36:00,950

to the next one but for now from

816

00:36:09,050 --> 00:36:03,750

beautiful Malala in South Australia this

817

00:36:16,440 --> 00:36:11,460

you've been listening to the skeptic

818

00:36:20,220 --> 00:36:16,450

zone visit our website at www.skeptics