

**The Skeptic Zone**  
**Show 317 - 16 Nov 2014**



**Dr Julie Lada**

1  
00:00:05,329 --> 00:00:01,850  
the skeptic zone is brought to you by

2  
00:00:08,780 --> 00:00:05,339  
dr. Bob's trivia quiz visit dr. Bob's

3  
00:00:17,779 --> 00:00:08,790  
quiz wordpress.com and see if you can

4  
00:00:20,660 --> 00:00:17,789  
match wits with dr. Bob welcome to the

5  
00:00:33,119 --> 00:00:20,670  
skeptic zone the podcast from Australia

6  
00:00:40,119 --> 00:00:35,680  
hello and welcome to the skeptic zone

7  
00:00:42,880 --> 00:00:40,129  
number 317 for the 16th of November 2014

8  
00:00:44,979 --> 00:00:42,890  
or 2014 or that year that came after

9  
00:00:47,560 --> 00:00:44,989  
last main are here filling in for

10  
00:00:50,020 --> 00:00:47,570  
Richard Saunders who's out of action but

11  
00:00:51,549 --> 00:00:50,030  
he's not out of action if you know what

12  
00:00:54,040 --> 00:00:51,559  
I mean anyway he's out of the other

13  
00:00:56,920 --> 00:00:54,050

action for this week and he cannot speak

14

00:00:59,290 --> 00:00:56,930

yes Richard Saunders the throat that

15

00:01:02,319 --> 00:00:59,300

dare not speak its name can I say that

16

00:01:04,810 --> 00:01:02,329

poor Richard anyway send you up send

17

00:01:06,520 --> 00:01:04,820

your condolences care of this podcast to

18

00:01:09,700 --> 00:01:06,530

Richard and he'll be back on deck before

19

00:01:12,070 --> 00:01:09,710

you know it but the deck is the deck of

20

00:01:14,290 --> 00:01:12,080

the SS lollipop but he'll still be there

21

00:01:16,359 --> 00:01:14,300

as a result as a result of this week's

22

00:01:19,719 --> 00:01:16,369

show the part of Richard Saunders will

23

00:01:21,790 --> 00:01:19,729

be played by Maynard wearing no pants

24

00:01:24,969 --> 00:01:21,800

which is a good thing it's an audio

25

00:01:26,560 --> 00:01:24,979

podcast and there's no cover art here's

26

00:01:28,660 --> 00:01:26,570

what we've got lots and lots and lots of

27

00:01:30,160 --> 00:01:28,670

skeptical goodness speaking of skeptical

28

00:01:32,919 --> 00:01:30,170

goodness you can catch me on the

29

00:01:35,740 --> 00:01:32,929

splitting cases podcast in which I sold

30

00:01:38,109 --> 00:01:35,750

that age-old skeptical question which is

31

00:01:40,120 --> 00:01:38,119

the better movie can't stop the music or

32

00:01:42,429 --> 00:01:40,130

spice world okay the answer isn't

33

00:01:44,350 --> 00:01:42,439

exactly a skeptical one but it is as the

34

00:01:46,690 --> 00:01:44,360

religious amongst you would believe a

35

00:01:48,670 --> 00:01:46,700

revealed truth anyway that's the

36

00:01:50,260 --> 00:01:48,680

splitting cases podcast they've got none

37

00:01:52,270 --> 00:01:50,270

that nonsense here today we've got some

38

00:01:53,859 --> 00:01:52,280

other nonsense at the top of the show we

39

00:01:56,530 --> 00:01:53,869

have an interview with dr. Julie ladder

40

00:01:58,690 --> 00:01:56,540

The Skeptical vet now this was done

41

00:01:59,920 --> 00:01:58,700

before which his voice went south which

42

00:02:01,810 --> 00:01:59,930

means he was still at the top part of

43

00:02:03,700 --> 00:02:01,820

New South Wales at the time and dr.

44

00:02:05,920 --> 00:02:03,710

Julie will set us on some wacky woo

45

00:02:08,050 --> 00:02:05,930

she's had to deal with as a vet because

46

00:02:10,690 --> 00:02:08,060

believe you me the wacky woo world is

47

00:02:12,940 --> 00:02:10,700

not just confined to those of us with a

48

00:02:15,520 --> 00:02:12,950

monkey vault brain I'm sorry that should

49

00:02:17,319 --> 00:02:15,530

be a primate evolved brain I thought you

50

00:02:19,569 --> 00:02:17,329

got me there but no I read a book once

51  
00:02:21,819 --> 00:02:19,579  
then it's this week in science from our

52  
00:02:23,530 --> 00:02:21,829  
iOS man they've been working hard in

53  
00:02:26,229 --> 00:02:23,540  
South Australia they have decriminalized

54  
00:02:27,640 --> 00:02:26,239  
pot then they recriminate and I don't

55  
00:02:29,650 --> 00:02:27,650  
know what's going on but has a lot to do

56  
00:02:31,720 --> 00:02:29,660  
with the output of our iOS it's all

57  
00:02:33,190 --> 00:02:31,730  
happening out of Adelaide it's not just

58  
00:02:35,289 --> 00:02:33,200  
the city of weird murders anymore and

59  
00:02:37,980 --> 00:02:35,299  
around off the show it's evidence please

60  
00:02:40,890 --> 00:02:37,990  
that's pronounced evidence

61  
00:02:42,330 --> 00:02:40,900  
easy with Joe alabaster now this week

62  
00:02:44,310 --> 00:02:42,340  
she's looking at the reaction that

63  
00:02:47,460 --> 00:02:44,320

homeopathy got when it claimed a good

64

00:02:49,620 --> 00:02:47,470

treat Ebola let's just say um it was not

65

00:02:51,690 --> 00:02:49,630

overwhelmingly good that's probably the

66

00:02:55,670 --> 00:02:51,700

best way to put it I like the guy who

67

00:02:58,590 --> 00:02:55,680

flew from Vermont to say he could cure

68

00:03:00,840 --> 00:02:58,600

Ebola using time travel in quantum and

69

00:03:02,610 --> 00:03:00,850

claimed that he was a doctor well

70

00:03:04,560 --> 00:03:02,620

obviously that's a stupid because if

71

00:03:08,130 --> 00:03:04,570

he's making that claim he would be the

72

00:03:11,700 --> 00:03:08,140

doctor said topical and humorous now if

73

00:03:14,640 --> 00:03:11,710

you'd like to meet Richard Saunders Joe

74

00:03:16,920 --> 00:03:14,650

alabaster I'll be hiding a cupboard and

75

00:03:18,450 --> 00:03:16,930

other things at the biggest rayon

76  
00:03:20,460 --> 00:03:18,460  
skeptics National Convention and we're

77  
00:03:22,730 --> 00:03:20,470  
going to live which cupboard and it's

78  
00:03:25,590 --> 00:03:22,740  
not a closet it's slightly smaller

79  
00:03:27,660 --> 00:03:25,600  
that's the 20 go the 30th of November in

80  
00:03:29,550 --> 00:03:27,670  
chatswood now it's just going to be

81  
00:03:32,400 --> 00:03:29,560  
happening there basically let's just

82  
00:03:34,410 --> 00:03:32,410  
honestly tell you if you aren't going to

83  
00:03:35,850 --> 00:03:34,420  
this event you have to have a good look

84  
00:03:37,650 --> 00:03:35,860  
at what you're doing in your life and

85  
00:03:40,050 --> 00:03:37,660  
either put a big tick next to it or not

86  
00:03:41,400 --> 00:03:40,060  
that just make or break time like what

87  
00:03:43,620 --> 00:03:41,410  
I'm going to be talking to George Arab

88  
00:03:45,570 --> 00:03:43,630

but if you like to meet everybody get

89

00:03:46,470 --> 00:03:45,580

going and get to that website you've got

90

00:03:47,970 --> 00:03:46,480

you're going to make everyone's going to

91

00:03:50,670 --> 00:03:47,980

be there you're going to hear stories

92

00:03:52,530 --> 00:03:50,680

about it I'm going to do over 2600

93

00:03:54,060 --> 00:03:52,540

interviews so that there will no be

94

00:03:55,500 --> 00:03:54,070

about me after this convention there

95

00:03:58,110 --> 00:03:55,510

won't be a skipping zone it'll just be

96

00:04:00,780 --> 00:03:58,120

it'll be the National Convention skeptic

97

00:04:02,400 --> 00:04:00,790

zone show for the next three years it's

98

00:04:04,350 --> 00:04:02,410

all happening at the skeptics National

99

00:04:06,300 --> 00:04:04,360

Convention 28 the 30th November in

100

00:04:07,920 --> 00:04:06,310

chatswood who knows i might even

101  
00:04:09,630 --> 00:04:07,930  
interview you and your better have an

102  
00:04:11,460 --> 00:04:09,640  
answer prepared and it doesn't even have

103  
00:04:14,010 --> 00:04:11,470  
to be to one of my questions so i could

104  
00:04:16,800 --> 00:04:14,020  
just say how you today and you can say

105  
00:04:19,170 --> 00:04:16,810  
bundaberg and then I'll just have to

106  
00:04:20,520 --> 00:04:19,180  
guess see that just throws it completely

107  
00:04:22,920 --> 00:04:20,530  
back on the interview it's an old ABC

108  
00:04:24,270 --> 00:04:22,930  
tactic just have a question ready for

109  
00:04:25,710 --> 00:04:24,280  
whatever they ask you first I mean the

110  
00:04:27,480 --> 00:04:25,720  
Prime Minister goes on there and they

111  
00:04:29,310 --> 00:04:27,490  
going how you tonight and he goes I'm

112  
00:04:30,630 --> 00:04:29,320  
not so sure about that who told you see

113  
00:04:32,820 --> 00:04:30,640

and let's just get you out of the

114

00:04:35,010 --> 00:04:32,830

trouble straightaway and like I said get

115

00:04:37,230 --> 00:04:35,020

yep so get that really and for more

116

00:04:38,880 --> 00:04:37,240

information for more information about

117

00:04:41,370 --> 00:04:38,890

the National skeptics conference please

118

00:04:43,530 --> 00:04:41,380

go for the love of whatever you believe

119

00:04:45,540 --> 00:04:43,540

in other than God hang on hang on I read

120

00:04:47,610 --> 00:04:45,550

a book once no that's not right for the

121

00:04:51,690 --> 00:04:47,620

love of not believing in any deity at

122

00:04:53,490 --> 00:04:51,700

all you go to convention skeptics

123

00:04:55,860 --> 00:04:53,500

on that are you and I would actually

124

00:04:57,690 --> 00:04:55,870

like to talk to any skeptics who are

125

00:04:59,880 --> 00:04:57,700

there who are Christians who are

126

00:05:02,040 --> 00:04:59,890

believers because I gotta say haven't

127

00:05:04,440 --> 00:05:02,050

met many in the skeptics movement and

128

00:05:05,940 --> 00:05:04,450

I'm interested in in hearing well why

129

00:05:07,590 --> 00:05:05,950

you believe what you believe and had

130

00:05:09,000 --> 00:05:07,600

that works for you and I'd like to know

131

00:05:10,380 --> 00:05:09,010

that and I think we might like to do

132

00:05:12,720 --> 00:05:10,390

that that's just an offer out there

133

00:05:14,010 --> 00:05:12,730

remember how that answer ready bundaberg

134

00:05:15,270 --> 00:05:14,020

could be one of them but since I've

135

00:05:17,010 --> 00:05:15,280

already used that answer you'll have to

136

00:05:19,830 --> 00:05:17,020

find your own well now it's time for me

137

00:05:22,860 --> 00:05:19,840

to go into the next room look under the

138

00:05:26,280 --> 00:05:22,870

bed and find out what the penthouse pet

139

00:05:27,570 --> 00:05:26,290

of the month in 1981 as a car I can't

140

00:05:29,670 --> 00:05:27,580

reveal that answer you'll have to look

141

00:05:33,060 --> 00:05:29,680

that I want up on the internet what did

142

00:05:34,290 --> 00:05:33,070

she win as a car and when you see the

143

00:05:36,060 --> 00:05:34,300

answer you really have to wonder if the

144

00:05:37,200 --> 00:05:36,070

whole thing was worth it but while I'm

145

00:05:39,540 --> 00:05:37,210

doing that I hope you can find

146

00:05:44,210 --> 00:05:39,550

everything under the bed there enjoy the

147

00:05:44,220 --> 00:06:01,100

Oh

148

00:06:06,809 --> 00:06:05,370

and joining me now from their beautiful

149

00:06:08,189 --> 00:06:06,819

place in the world that won't be told

150

00:06:10,110 --> 00:06:08,199

it's beautiful i'd like to visit me i'd

151

00:06:11,670 --> 00:06:10,120

like to visit everywhere whenever I

152

00:06:13,320 --> 00:06:11,680

interview people I always like to go and

153

00:06:15,779 --> 00:06:13,330

visit Lee maybe even if I've never been

154

00:06:18,450 --> 00:06:15,789

before from what I imagined to be

155

00:06:21,330 --> 00:06:18,460

beautiful indianapolis in indiana it's

156

00:06:24,600 --> 00:06:21,340

dr. julie ladder The Skeptical vet hello

157

00:06:26,279 --> 00:06:24,610

Julie era turd it's been a little while

158

00:06:27,779 --> 00:06:26,289

since we've caught up with you in fact

159

00:06:30,089 --> 00:06:27,789

August last year was the last time

160

00:06:34,020 --> 00:06:30,099

you're on the skeptic zone and for those

161

00:06:37,620 --> 00:06:34,030

people who may not remember you spend a

162

00:06:39,629 --> 00:06:37,630

long time I guess in at the end or on

163

00:06:44,399 --> 00:06:39,639

the island of sand kits to become a vent

164

00:06:47,070 --> 00:06:44,409

and I bet you still miss that oh i do i

165

00:06:49,409 --> 00:06:47,080

miss the island so much gotten my blood

166

00:06:55,200 --> 00:06:49,419

in a big bad way so how are you coping

167

00:06:58,680 --> 00:06:55,210

of in the real world uh work keeps me

168

00:07:01,589 --> 00:06:58,690

pretty busy but I definitely I'm going

169

00:07:03,719 --> 00:07:01,599

on a Caribbean cruise and fabulous so I

170

00:07:06,779 --> 00:07:03,729

guess I couldn't sail away for two very

171

00:07:09,439 --> 00:07:06,789

long he going back to some kids not to

172

00:07:12,209 --> 00:07:09,449

think it's now when definitely effective

173

00:07:14,189 --> 00:07:12,219

island living for a week at least well

174

00:07:17,909 --> 00:07:14,199

it'll i'm sure it'll seem very familiar

175

00:07:22,290 --> 00:07:17,919

to you yeah I'm probably never gonna

176

00:07:24,089 --> 00:07:22,300

leave the ocean for most part of it well

177

00:07:27,420 --> 00:07:24,099

maybe you should specialize and become a

178

00:07:29,879 --> 00:07:27,430

Marine veteran such a thing oh yeah

179

00:07:31,469 --> 00:07:29,889

actually one of my classmates took a job

180

00:07:35,459 --> 00:07:31,479

in florida and he's working primarily

181

00:07:37,529 --> 00:07:35,469

with aquatic mammals dolphins and things

182

00:07:40,050 --> 00:07:37,539

like that that sounds pretty good oh

183

00:07:42,390 --> 00:07:40,060

yeah yeah i can i could just picture you

184

00:07:44,879 --> 00:07:42,400

doing that because i have a picture of

185

00:07:47,730 --> 00:07:44,889

you in a wet suit under water with the

186

00:07:50,790 --> 00:07:47,740

whole scuba gear on because when i was

187

00:07:52,649 --> 00:07:50,800

getting dive certified down there I can

188

00:07:54,719 --> 00:07:52,659

tell you've got quite an affinity for

189

00:07:57,220 --> 00:07:54,729

animals just by the way you chat about

190

00:08:00,010 --> 00:07:57,230

them marine animals and all

191

00:08:03,550 --> 00:08:00,020

but what I was hoping to talk to you

192

00:08:07,180 --> 00:08:03,560

today about being a vet and and you've

193

00:08:10,690 --> 00:08:07,190

been a for-real vet now for a while I

194

00:08:13,420 --> 00:08:10,700

dealing with animals on a daily basis

195

00:08:17,980 --> 00:08:13,430

all sorts of animals large and small we

196

00:08:20,380 --> 00:08:17,990

have in what's been referred to as far

197

00:08:22,420 --> 00:08:20,390

as people go as the doctor Google

198

00:08:24,280 --> 00:08:22,430

syndrome where people will Google their

199

00:08:25,930 --> 00:08:24,290

illnesses I'll see a rash on themselves

200

00:08:28,300 --> 00:08:25,940

or feel a bump or something run to

201  
00:08:31,360 --> 00:08:28,310  
Google come up with all sorts of crazy

202  
00:08:35,890 --> 00:08:31,370  
diagnosis but I understand this also

203  
00:08:39,460 --> 00:08:35,900  
happens to vets yeah um it's kind of

204  
00:08:43,890 --> 00:08:39,470  
like a a mixed blessing because we love

205  
00:08:48,220 --> 00:08:43,900  
owners who are invested and completely

206  
00:08:51,040 --> 00:08:48,230  
involved in in their pets care and do

207  
00:08:53,440 --> 00:08:51,050  
their homework it's fantastic if I say

208  
00:08:55,870 --> 00:08:53,450  
okay well your pet is hypothyroid or has

209  
00:08:57,760 --> 00:08:55,880  
diabetes and at their next follow-up

210  
00:08:59,080 --> 00:08:57,770  
visit they're like yeah well I've been

211  
00:09:00,700 --> 00:08:59,090  
reading on the internet about this

212  
00:09:03,160 --> 00:09:00,710  
treatment and that treatment and I know

213  
00:09:05,110 --> 00:09:03,170

the things to look out for that might

214

00:09:07,960 --> 00:09:05,120

you know signal that they're getting

215

00:09:09,520 --> 00:09:07,970

worse so i love it when i get the owners

216

00:09:12,580 --> 00:09:09,530

who put in the time and the effort

217

00:09:14,530 --> 00:09:12,590

that's fantastic what I'm less in love

218

00:09:16,150 --> 00:09:14,540

with is the owners who show up and

219

00:09:17,710 --> 00:09:16,160

they're like oh my dogs you know gaining

220

00:09:19,390 --> 00:09:17,720

weight even though we cut their food

221

00:09:20,980 --> 00:09:19,400

back and we've been exercising more so

222

00:09:24,640 --> 00:09:20,990

they're hypothyroid so just give me the

223

00:09:26,830 --> 00:09:24,650

thyroid really so they walk in already

224

00:09:28,690 --> 00:09:26,840

having diagnosed the animal themselves

225

00:09:31,180 --> 00:09:28,700

and they know what medicine they want

226

00:09:34,120 --> 00:09:31,190

you to prescribe yeah yeah they tell me

227

00:09:35,410 --> 00:09:34,130

like I want thyroxine or my dog's been

228

00:09:37,210 --> 00:09:35,420

shaking its head a lot it's got a ear

229

00:09:40,630 --> 00:09:37,220

infection put some medicine and IM it

230

00:09:44,280 --> 00:09:40,640

it's kind of like selling i don't want

231

00:09:46,570 --> 00:09:44,290

to say selling hello let's do this um

232

00:09:48,280 --> 00:09:46,580

getting owners to comply with a

233

00:09:50,140 --> 00:09:48,290

treatment plan that I've put together

234

00:09:52,660 --> 00:09:50,150

where it okay well we need to test their

235

00:09:54,310 --> 00:09:52,670

t4 then and see if it's lower I need to

236

00:09:57,490 --> 00:09:54,320

run an ear slob and look at it under a

237

00:09:58,780 --> 00:09:57,500

microscope they they've already made up

238

00:10:00,160 --> 00:09:58,790

their minds it's an ear infection just

239

00:10:03,250 --> 00:10:00,170

put medicine in it why can't you just

240

00:10:04,690 --> 00:10:03,260

give me medicine Wow and you then I kind

241

00:10:06,700 --> 00:10:04,700

of go into my whole explanation of well

242

00:10:09,610 --> 00:10:06,710

you know it could be bacteria it could

243

00:10:10,690 --> 00:10:09,620

be used of the kinds of bacteria could

244

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

be they're different and I'm

245

00:10:15,760 --> 00:10:12,710

products that work better or worse so I

246

00:10:20,200 --> 00:10:15,770

really need the ear swab in order to

247

00:10:22,300 --> 00:10:20,210

give you the right medicine and that is

248

00:10:24,670 --> 00:10:22,310

definitely one of the struggles of being

249

00:10:26,920 --> 00:10:24,680

a veterinarian is you know you hear all

250

00:10:30,040 --> 00:10:26,930

these jokes of I know I became at that

251

00:10:32,740 --> 00:10:30,050

because I don't like people I haven't

252

00:10:36,220 --> 00:10:32,750

heard that one be four a huge part of

253

00:10:39,220 --> 00:10:36,230

what we do and especially explaining you

254

00:10:43,030 --> 00:10:39,230

know why I want certain things and why I

255

00:10:45,550 --> 00:10:43,040

need certain Diagnostics it's a major

256

00:10:48,340 --> 00:10:45,560

part of what I do and dr. google doesn't

257

00:10:51,640 --> 00:10:48,350

make it easy sometimes no I can imagine

258

00:10:55,390 --> 00:10:51,650

so because this is a problem what can be

259

00:10:57,640 --> 00:10:55,400

a problem faced by GPS I don't know it's

260

00:10:59,260 --> 00:10:57,650

maybe not so much specialist maybe by

261

00:11:01,330 --> 00:10:59,270

the time people get to that stage there

262

00:11:03,670 --> 00:11:01,340

it's not such a problem but certainly

263

00:11:05,110 --> 00:11:03,680

we've heard about it with GPS as i said

264

00:11:07,750 --> 00:11:05,120

before people marching in and saying

265

00:11:10,150 --> 00:11:07,760

I've got this condition or I've got that

266

00:11:13,240 --> 00:11:10,160

condition and I want I want you to do

267

00:11:15,790 --> 00:11:13,250

this or that fort so although I

268

00:11:17,650 --> 00:11:15,800

shouldn't be surprised it happens to

269

00:11:20,650 --> 00:11:17,660

vets I am surprised because it never

270

00:11:24,190 --> 00:11:20,660

never crossed my mind before do you find

271

00:11:27,460 --> 00:11:24,200

this a regular occurrence yeah yeah

272

00:11:29,860 --> 00:11:27,470

definitely and it did it very much

273

00:11:32,320 --> 00:11:29,870

ranges from the people who are like oh

274

00:11:34,930 --> 00:11:32,330

you know I i just read about it and so I

275

00:11:37,270 --> 00:11:34,940

thought that you know maybe we would be

276

00:11:39,070 --> 00:11:37,280

able to get the medicine without doing

277

00:11:40,930 --> 00:11:39,080

the swamp but now that you've explained

278

00:11:43,720 --> 00:11:40,940

it I understand why it's important that

279

00:11:45,430 --> 00:11:43,730

we do and then you get the other end who

280

00:11:47,170 --> 00:11:45,440

just their minds are made up and they

281

00:11:51,310 --> 00:11:47,180

think that you're I've been accused of

282

00:11:54,550 --> 00:11:51,320

stealing of over selling products or

283

00:11:57,220 --> 00:11:54,560

services of ripping people off and it

284

00:11:59,620 --> 00:11:57,230

hurts you know I'm not trying to rip you

285

00:12:04,870 --> 00:11:59,630

up and I'm trying to do the best thing

286

00:12:08,580 --> 00:12:04,880

for your pet and um it sucks when you

287

00:12:12,370 --> 00:12:08,590

get accused of being self interested or

288

00:12:15,400 --> 00:12:12,380

out for money when that's not your cool

289

00:12:17,110 --> 00:12:15,410

so you've literally had people come

290

00:12:18,670 --> 00:12:17,120

in and say this is what's wrong with my

291

00:12:19,690 --> 00:12:18,680

pet I need this medicine he said now

292

00:12:20,940 --> 00:12:19,700

hang on a minute I've got to run some

293

00:12:24,360 --> 00:12:20,950

tests and they'll they'll

294

00:12:26,400 --> 00:12:24,370

argue the point with you but more than

295

00:12:31,320 --> 00:12:26,410

argued appointment they'll outright

296

00:12:33,140 --> 00:12:31,330

accuse me of malpractice and trying to

297

00:12:37,410 --> 00:12:33,150

sell them things that they don't need

298

00:12:39,990 --> 00:12:37,420

wow wow you know I don't want to sue

299

00:12:41,070 --> 00:12:40,000

portray this is the usual but it's

300

00:12:42,480 --> 00:12:41,080

definitely something that any

301  
00:12:45,840 --> 00:12:42,490  
veterinarian will tell you they deal

302  
00:12:47,550 --> 00:12:45,850  
with Wow the Internet age and it brings

303  
00:12:50,460 --> 00:12:47,560  
all sorts of interesting things to it to

304  
00:12:53,430 --> 00:12:50,470  
people but arguments in the veterinarian

305  
00:12:56,850 --> 00:12:53,440  
clinic that that I didn't foresee I must

306  
00:12:58,800 --> 00:12:56,860  
hit me hit and what what do you see most

307  
00:13:00,060 --> 00:12:58,810  
of in your practice is it simply the

308  
00:13:02,070 --> 00:13:00,070  
what we couldn't might call the

309  
00:13:05,580 --> 00:13:02,080  
traditional cats and dogs and my son no

310  
00:13:08,070 --> 00:13:05,590  
I don't know what else yeah it's mostly

311  
00:13:10,290 --> 00:13:08,080  
a cat and dog practice since I came in

312  
00:13:11,820 --> 00:13:10,300  
I'm at a practice with four doctors now

313  
00:13:14,250 --> 00:13:11,830

that I've joined there were three before

314

00:13:16,110 --> 00:13:14,260

um none of the three were terribly

315

00:13:19,440 --> 00:13:16,120

comfortable with doing any exotic animal

316

00:13:22,260 --> 00:13:19,450

medicine um exotic smiiiiing the pocket

317

00:13:24,300 --> 00:13:22,270

pets reptiles amphibians birds gerbils

318

00:13:26,600 --> 00:13:24,310

hamsters that kind of thing so those are

319

00:13:28,980 --> 00:13:26,610

more my thing and I'm definitely very

320

00:13:30,900 --> 00:13:28,990

interested in exotic animal medicine so

321

00:13:34,410 --> 00:13:30,910

I've been seeing a lot more of those

322

00:13:36,210 --> 00:13:34,420

kind of patients and then we're kind of

323

00:13:38,520 --> 00:13:36,220

running into well I need this then Enzo

324

00:13:41,940 --> 00:13:38,530

I'm bringing more diagnostic tools into

325

00:13:44,790 --> 00:13:41,950

the clinic too so it's um it's a growing

326

00:13:46,980 --> 00:13:44,800

part of our practice the exotic pet

327

00:13:51,510 --> 00:13:46,990

market isn't that interesting and what

328

00:13:53,280 --> 00:13:51,520

would I mean you say what reptiles and

329

00:13:57,260 --> 00:13:53,290

things well you must have seen a few

330

00:14:00,690 --> 00:13:57,270

very strange exotic pets oh yeah and

331

00:14:06,210 --> 00:14:00,700

well not so much at my current practice

332

00:14:09,990 --> 00:14:06,220

by in clinics um I've I saw porcupines I

333

00:14:12,000 --> 00:14:10,000

saw a Patagonian cavy which is the

334

00:14:14,640 --> 00:14:12,010

second or third largest rodent in the

335

00:14:19,980 --> 00:14:14,650

world they be they look like on stilts

336

00:14:24,270 --> 00:14:19,990

and ton of enormous reptiles and birds

337

00:14:29,850 --> 00:14:24,280

giant parrots tons of cool stuff you see

338

00:14:31,230 --> 00:14:29,860

many snakes yeah yeah yeah um not I've

339

00:14:32,910 --> 00:14:31,240

seen a couple since I've been in private

340

00:14:34,769 --> 00:14:32,920

practice I saw a lot and when I

341

00:14:40,829 --> 00:14:34,779

is going to my clinical year school but

342

00:14:43,190 --> 00:14:40,839

um less so I do see um a lot of pocket

343

00:14:46,530 --> 00:14:43,200

pets and reptiles and things from

344

00:14:49,620 --> 00:14:46,540

petsmart the it's a pet store that they

345

00:14:52,949 --> 00:14:49,630

have live animals and I've been referred

346

00:14:56,090 --> 00:14:52,959

a lot of their pets from all around

347

00:14:58,800 --> 00:14:56,100

Indianapolis actually I've had as far as

348

00:15:01,740 --> 00:14:58,810

Avon which is about 13 miles away from

349

00:15:04,410 --> 00:15:01,750

the clinic and they've driven to come

350

00:15:07,199 --> 00:15:04,420

see me yeah so that's it's wonderful

351

00:15:09,720 --> 00:15:07,209

it's fantastic to you know have word of

352

00:15:11,370 --> 00:15:09,730

mouth spreading that I I have competence

353

00:15:14,150 --> 00:15:11,380

with exotics but it's kind of terrifying

354

00:15:17,579 --> 00:15:14,160

for being only four months out of school

355

00:15:18,750 --> 00:15:17,589

oh shoot exotic expert cozier and then I

356

00:15:21,300 --> 00:15:18,760

get something like I have no idea what

357

00:15:24,000 --> 00:15:21,310

that is now when we were chatting to you

358

00:15:25,850 --> 00:15:24,010

even earlier some years ago when you

359

00:15:30,180 --> 00:15:25,860

were still in the middle of your studies

360

00:15:33,480 --> 00:15:30,190

how how does the reality of what you

361

00:15:35,280 --> 00:15:33,490

have to face in a practice relate to or

362

00:15:38,310 --> 00:15:35,290

compared to what you thought it would be

363

00:15:41,670 --> 00:15:38,320

like during your years on some kids uh

364

00:15:43,710 --> 00:15:41,680

well I was a technician before I went to

365

00:15:47,730 --> 00:15:43,720

that school so I had a pretty realistic

366

00:15:52,350 --> 00:15:47,740

view of what clinical practice would be

367

00:15:56,040 --> 00:15:52,360

like um there are definitely those of my

368

00:15:57,449 --> 00:15:56,050

classmates who have less technical

369

00:15:58,949 --> 00:15:57,459

experience before starting school and

370

00:16:01,439 --> 00:15:58,959

I'm sure this is good of a rude

371

00:16:03,150 --> 00:16:01,449

awakening especially yeah if you could

372

00:16:06,060 --> 00:16:03,160

imagine people are very attached to

373

00:16:08,610 --> 00:16:06,070

their pets and the emotions can run high

374

00:16:12,630 --> 00:16:08,620

oh absolutely absolutely without

375

00:16:15,840 --> 00:16:12,640

question you know from experience last

376

00:16:17,639 --> 00:16:15,850

year little cat Liddell died and you're

377

00:16:20,069 --> 00:16:17,649

very helpful in that net situation but

378

00:16:22,110 --> 00:16:20,079

all the motions run very high in we've

379

00:16:25,920 --> 00:16:22,120

still have Fred he's kicking around here

380

00:16:31,050 --> 00:16:25,930

somewhere mr. good fit for ya when the

381

00:16:33,870 --> 00:16:31,060

financial versus the attachment kind of

382

00:16:36,480 --> 00:16:33,880

dilemma happens is when we definitely

383

00:16:39,360 --> 00:16:36,490

see some very high emotional states from

384

00:16:40,920 --> 00:16:39,370

our owners because it's very difficult

385

00:16:45,059 --> 00:16:40,930

sometimes they feel like they're being

386

00:16:46,560 --> 00:16:45,069

heartless or selfish or negligent even

387

00:16:48,990 --> 00:16:46,570

if if they just don't

388

00:16:52,500 --> 00:16:49,000

the finances there to manage a very

389

00:16:54,600 --> 00:16:52,510

critically ill pet and so we have some

390

00:16:58,860 --> 00:16:54,610

very serious times talks about you know

391

00:17:00,600 --> 00:16:58,870

it's okay and we have these limitations

392

00:17:04,620 --> 00:17:00,610

we know that we have X amount of dollars

393

00:17:08,790 --> 00:17:04,630

to work with and if the patient is in

394

00:17:11,939 --> 00:17:08,800

pain or to end-of-life issues terminal

395

00:17:13,560 --> 00:17:11,949

cancer that kind of thing then we sit

396

00:17:15,840 --> 00:17:13,570

down and have this talk of you're not a

397

00:17:20,430 --> 00:17:15,850

bad person you're not a bad owner this

398

00:17:22,620 --> 00:17:20,440

is what you can do and if what the pet

399

00:17:25,230 --> 00:17:22,630

requires goes beyond those financial

400

00:17:28,439 --> 00:17:25,240

means then you can end things too mainly

401  
00:17:31,980 --> 00:17:28,449  
and that's not a bad or a selfish choice

402  
00:17:33,420 --> 00:17:31,990  
so I I have very serious very difficult

403  
00:17:36,840 --> 00:17:33,430  
conversations pretty much of a daily

404  
00:17:38,640 --> 00:17:36,850  
basis with honors and a lot of times

405  
00:17:40,950 --> 00:17:38,650  
that's all they need is that reassurance

406  
00:17:44,850 --> 00:17:40,960  
that they're not a bad person and it's

407  
00:17:48,510 --> 00:17:44,860  
okay it is you've got fifty dollars in

408  
00:17:51,000 --> 00:17:48,520  
your wallet and you can't afford to do

409  
00:17:53,160 --> 00:17:51,010  
three days of hospitalization and IV

410  
00:17:55,710 --> 00:17:53,170  
fluids and pain meds and you just can't

411  
00:17:57,360 --> 00:17:55,720  
it's okay you know we understand we're

412  
00:18:00,480 --> 00:17:57,370  
not gonna be like well sorry about your

413  
00:18:02,910 --> 00:18:00,490

lock out the door that's that's really

414

00:18:05,370 --> 00:18:02,920

interesting to hear that from you

415

00:18:08,400 --> 00:18:05,380

because i have just referring back to

416

00:18:11,010 --> 00:18:08,410

what a GP my dear will and I guess

417

00:18:13,860 --> 00:18:11,020

specialist too and we hear about how

418

00:18:16,260 --> 00:18:13,870

important the bedside manner is for for

419

00:18:18,810 --> 00:18:16,270

doctors to have a good rapport with

420

00:18:21,510 --> 00:18:18,820

their patients to put them at ease to to

421

00:18:23,220 --> 00:18:21,520

be understanding and I don't know what

422

00:18:25,650 --> 00:18:23,230

you'd call it with a vet though it's not

423

00:18:27,150 --> 00:18:25,660

quite a bedside manner you you might

424

00:18:28,320 --> 00:18:27,160

have they're still use the same

425

00:18:30,090 --> 00:18:28,330

terminology even though you're

426

00:18:34,590 --> 00:18:30,100

technically correct yet it's like kennel

427

00:18:36,330 --> 00:18:34,600

side matter a kennel side matter maybe

428

00:18:38,520 --> 00:18:36,340

you should rename it that's right this

429

00:18:39,930 --> 00:18:38,530

that's again it's something I guess

430

00:18:41,790 --> 00:18:39,940

wouldn't cross a lot of people's minds

431

00:18:44,550 --> 00:18:41,800

but being in your situation you'd

432

00:18:46,740 --> 00:18:44,560

certainly have to deal with that uh and

433

00:18:49,530 --> 00:18:46,750

a great great deal more than your

434

00:18:50,850 --> 00:18:49,540

average your GP I would think yeah the

435

00:18:54,750 --> 00:18:50,860

average if he doesn't really discuss

436

00:18:56,520 --> 00:18:54,760

Ethan a Joe it is not really not really

437

00:18:58,280 --> 00:18:56,530

if we can get a slight giggle out of

438

00:19:02,870 --> 00:18:58,290

that you're absolutely right

439

00:19:05,570 --> 00:19:02,880

absolutely right and just to wrap things

440

00:19:09,290 --> 00:19:05,580

up and I'd probably ask ask you this

441

00:19:12,260 --> 00:19:09,300

before but do you do and I'm sure about

442

00:19:15,340 --> 00:19:12,270

you this before but what sort of magical

443

00:19:19,550 --> 00:19:15,350

thinking does a vet encounter from

444

00:19:23,300 --> 00:19:19,560

owners woo and things like that all

445

00:19:26,540 --> 00:19:23,310

kinds of things I have owners who treat

446

00:19:29,540 --> 00:19:26,550

their cats fleas holistically with herbs

447

00:19:31,780 --> 00:19:29,550

and such and don't believe in heartworm

448

00:19:34,460 --> 00:19:31,790

medication or chemicals or drugs

449

00:19:38,180 --> 00:19:34,470

probably the latest one that I see a lot

450

00:19:40,430 --> 00:19:38,190

of is um people who are on these grain

451  
00:19:43,130 --> 00:19:40,440  
free diets who are convinced that grains

452  
00:19:47,230 --> 00:19:43,140  
are the root of all evil and dog and cat

453  
00:19:49,790 --> 00:19:47,240  
health issues and I've had so many itchy

454  
00:19:51,620 --> 00:19:49,800  
because for some reason allergies even

455  
00:19:54,320 --> 00:19:51,630  
food allergies and pets manifest as

456  
00:19:57,290 --> 00:19:54,330  
Toronto logic and they become very itchy

457  
00:19:59,960 --> 00:19:57,300  
and will tear themselves open scribe

458  
00:20:02,240 --> 00:19:59,970  
like biting and scratching um they'll

459  
00:20:03,590 --> 00:20:02,250  
get these itchy dogs and owners like I

460  
00:20:07,220 --> 00:20:03,600  
don't understand how she's still

461  
00:20:10,490 --> 00:20:07,230  
allergic she's on a grain free diet it

462  
00:20:13,430 --> 00:20:10,500  
so yeah that's probably the the gold

463  
00:20:15,830 --> 00:20:13,440

star right now and the Wu tastic

464

00:20:17,840 --> 00:20:15,840

thinking of what I see on a daily basis

465

00:20:19,760 --> 00:20:17,850

have you had people come in saying I've

466

00:20:22,760 --> 00:20:19,770

been treating my dog with homeopathy or

467

00:20:26,840 --> 00:20:22,770

my cat without me over yeah um I

468

00:20:30,590 --> 00:20:26,850

actually recently just had um a fully

469

00:20:34,610 --> 00:20:30,600

paralyzed in the hind end dog come in

470

00:20:37,340 --> 00:20:34,620

and um it has a fairly poor prognosis as

471

00:20:41,150 --> 00:20:37,350

you can imagine within 24 hours if they

472

00:20:44,960 --> 00:20:41,160

receive surgery it can have a better

473

00:20:48,050 --> 00:20:44,970

prognosis but um it's just not a really

474

00:20:49,880 --> 00:20:48,060

great thing for me to have come in the

475

00:20:51,530 --> 00:20:49,890

door and have to talk to very upset

476

00:20:53,300 --> 00:20:51,540

owners who just came from home from work

477

00:20:55,910 --> 00:20:53,310

and found their dog you know unable to

478

00:20:58,280 --> 00:20:55,920

use his back legs and um so we kind of

479

00:20:59,870 --> 00:20:58,290

talked about well if you get to a

480

00:21:01,580 --> 00:20:59,880

specialist and you receive the surgery

481

00:21:06,820 --> 00:21:01,590

within 24 hours that's basically your

482

00:21:08,780 --> 00:21:06,830

dear only your only hope yeah um and

483

00:21:10,670 --> 00:21:08,790

they went to the special ition they

484

00:21:11,930 --> 00:21:10,680

couldn't afford the surgery so they were

485

00:21:14,289 --> 00:21:11,940

treating with Cairo

486

00:21:17,720 --> 00:21:14,299

Arctic and acupuncture the last I heard

487

00:21:19,700 --> 00:21:17,730

Wow IQ puncture now that I can believe

488

00:21:22,100 --> 00:21:19,710

because I've heard about that for pets

489

00:21:25,580 --> 00:21:22,110

actually acupuncture for dogs and racing

490

00:21:28,460 --> 00:21:25,590

horses I think yep yeah chiropractic is

491

00:21:30,049 --> 00:21:28,470

huge in racing horses to leave you can

492

00:21:31,730 --> 00:21:30,059

imagine they don't they don't do spinal

493

00:21:35,570 --> 00:21:31,740

manipulation manually with their hands

494

00:21:37,399 --> 00:21:35,580

they have to use an air gun too yeah the

495

00:21:42,009 --> 00:21:37,409

spine of a horse you can imagine trying

496

00:21:45,680 --> 00:21:42,019

to crack us yeah but it boggles the mind

497

00:21:47,810 --> 00:21:45,690

Annie a gun to folk IRA practicar a he

498

00:21:54,230 --> 00:21:47,820

can't you can't make this stuff up but

499

00:21:57,080 --> 00:21:54,240

somebody did ice over yeah um so that

500

00:21:59,269 --> 00:21:57,090

kind of stuff it it kills me sometimes

501  
00:22:01,460 --> 00:21:59,279  
because I know that that patients not

502  
00:22:03,259 --> 00:22:01,470  
going to get any better and chiropractic

503  
00:22:07,700 --> 00:22:03,269  
especially for a spinal injury I'm just

504  
00:22:09,080 --> 00:22:07,710  
floored by be wow the herniated disk and

505  
00:22:12,289 --> 00:22:09,090  
mash on it a bit that sounds like a

506  
00:22:13,759 --> 00:22:12,299  
fantastic idea it sounds to me like if I

507  
00:22:17,240 --> 00:22:13,769  
can offer a little bit of advice you

508  
00:22:19,789 --> 00:22:17,250  
should note these stories along the way

509  
00:22:21,860 --> 00:22:19,799  
in about 20 20 30 years or so I think

510  
00:22:25,039 --> 00:22:21,870  
we'll make a cracking book actually The

511  
00:22:29,299 --> 00:22:25,049  
Adventures of the skeptical vet yeah I'm

512  
00:22:31,549 --> 00:22:29,309  
if I'm still here in 20 or 30 years well

513  
00:22:33,889 --> 00:22:31,559

I certainly hope you are Julie letter

514

00:22:37,519 --> 00:22:33,899

and I hope for the sake of the animals

515

00:22:39,560 --> 00:22:37,529

where you are you are to thank you once

516

00:22:42,049 --> 00:22:39,570

again for chatting to us it's really fun

517

00:22:44,180 --> 00:22:42,059

to catch up with you every roughly every

518

00:22:47,769 --> 00:22:44,190

year and find out whether you are in

519

00:23:05,210 --> 00:22:47,779

your career and your your adventures so

520

00:23:11,190 --> 00:23:08,070

the skeptic magazine the journal from

521

00:23:13,410 --> 00:23:11,200

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00:23:18,720 --> 00:23:13,420

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523

00:23:21,930 --> 00:23:18,730

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00:23:26,310 --> 00:23:21,940

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00:23:38,040 --> 00:23:29,440  
to download the skeptic magazine from

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Australian skeptics Brisbane skeptic

528  
00:23:40,950 --> 00:23:39,370  
society is proud to announce that

529  
00:23:42,780 --> 00:23:40,960  
Michael Marshall will be coming to

530  
00:23:44,850 --> 00:23:42,790  
brisbane on the first of December I

531  
00:23:46,470 --> 00:23:44,860  
can't wait to speak in Brisbane I really

532  
00:23:47,490 --> 00:23:46,480  
want to be showing people or take people

533  
00:23:49,040 --> 00:23:47,500  
through some of the stuff that I've been

534  
00:23:51,360 --> 00:23:49,050  
doing in skepticism some of the

535  
00:23:52,920 --> 00:23:51,370  
interestings with a weird story some of

536  
00:23:55,410 --> 00:23:52,930  
the funny stories and some of the quiet

537  
00:23:56,850 --> 00:23:55,420  
horrible things that you see when you

538  
00:23:58,920 --> 00:23:56,860

get out there you investigate together

539

00:24:00,870 --> 00:23:58,930

systems w if that gets sued assigned to

540

00:24:02,040 --> 00:24:00,880

because of firsthand so please come

541

00:24:03,630 --> 00:24:02,050

along to Brisbane I look forward to

542

00:24:06,060 --> 00:24:03,640

seeing everyone there we have a beer

543

00:24:08,670 --> 00:24:06,070

afterwards to come along to tumble shire

544

00:24:10,980 --> 00:24:08,680

hall starting at six o'clock for a talk

545

00:24:13,470 --> 00:24:10,990

by Michael Marshall and drinks up to it

546

00:24:19,169 --> 00:24:13,480

for more info go to Brisbane skeptics

547

00:24:24,159 --> 00:24:21,969

welcome to a week in science from RI oz

548

00:24:27,129 --> 00:24:24,169

bring you the science you need to know

549

00:24:29,499 --> 00:24:27,139

it was one small step for an animal one

550

00:24:31,690 --> 00:24:29,509

giant leap for the animal kingdom but

551  
00:24:33,879 --> 00:24:31,700  
just how did the first vertebrates walk

552  
00:24:36,489 --> 00:24:33,889  
onto land and breathe air for the first

553  
00:24:43,810 --> 00:24:36,499  
time it's time to take a closer look at

554  
00:24:45,820 --> 00:24:43,820  
our first steps to recent papers reveal

555  
00:24:48,249 --> 00:24:45,830  
key insights into how the first

556  
00:24:50,349 --> 00:24:48,259  
vertebrates walked onto land and took

557  
00:24:52,930 --> 00:24:50,359  
their first breath the mechanism that

558  
00:24:55,209 --> 00:24:52,940  
determines whether you have fish fins or

559  
00:24:57,579 --> 00:24:55,219  
walking limbs is the rate at which a

560  
00:25:00,039 --> 00:24:57,589  
couple of hox genes are expressed hox

561  
00:25:02,079 --> 00:25:00,049  
genes are like Orchestra conductors they

562  
00:25:04,719 --> 00:25:02,089  
regulate how a whole suite of other

563  
00:25:07,119 --> 00:25:04,729

genes perform and changing its rate of

564

00:25:09,399 --> 00:25:07,129

expression can radically alter how an

565

00:25:11,139 --> 00:25:09,409

organism develops we learn more about

566

00:25:13,749 --> 00:25:11,149

limb building when developmental

567

00:25:17,049 --> 00:25:13,759

embryologists switch the hox genes from

568

00:25:19,329 --> 00:25:17,059

a fish to a mouse the fish Hawks gene

569

00:25:22,149 --> 00:25:19,339

could not produce fingers and toes in

570

00:25:24,249 --> 00:25:22,159

mice thus the genetic apparatus required

571

00:25:26,639 --> 00:25:24,259

to make fingers and toes must have

572

00:25:31,149 --> 00:25:26,649

evolved after walking limbs developed

573

00:25:33,129 --> 00:25:31,159

and we also now know how breathing

574

00:25:35,079 --> 00:25:33,139

developed for the first time and guess

575

00:25:37,479 --> 00:25:35,089

what we almost ended up breathing

576

00:25:40,419 --> 00:25:37,489

through our ears a team studied live

577

00:25:43,449 --> 00:25:40,429

Polly terrod fish from Africa these fish

578

00:25:46,239 --> 00:25:43,459

have a simple lung but no windpipe the

579

00:25:48,549 --> 00:25:46,249

team found that 93% of the air getting

580

00:25:51,369 --> 00:25:48,559

into the lung came through holes in the

581

00:25:53,649 --> 00:25:51,379

tops of the head called spiracles being

582

00:25:55,810 --> 00:25:53,659

surrounded by bone these structures are

583

00:25:57,969 --> 00:25:55,820

usually found in fossils of advanced

584

00:26:01,329 --> 00:25:57,979

fish and primitive walking vertebrates

585

00:26:03,310 --> 00:26:01,339

the tetrapods so now we can track how

586

00:26:06,279 --> 00:26:03,320

this early breathing mechanism developed

587

00:26:09,099 --> 00:26:06,289

in more advanced tetrapods like us the

588

00:26:13,820 --> 00:26:09,109

spiracles ended up becoming our ears and

589

00:26:16,229 --> 00:26:13,830

now for fast facts about walking on land

590

00:26:18,629 --> 00:26:16,239

while the standard body plan for

591

00:26:20,999 --> 00:26:18,639

tetrapods includes five fingers and toes

592

00:26:23,249 --> 00:26:21,009

at the ends of each limb some of the

593

00:26:25,739 --> 00:26:23,259

earliest land walkers had eight digits

594

00:26:27,659 --> 00:26:25,749

in recent years several fossil finds

595

00:26:29,869 --> 00:26:27,669

have completed the picture of every

596

00:26:32,969 --> 00:26:29,879

conceivable intermediate stage between

597

00:26:34,979 --> 00:26:32,979

advanced fish and the first land walking

598

00:26:37,259 --> 00:26:34,989

vertebrates the Queensland lungfish

599

00:26:39,359 --> 00:26:37,269

while not an immediate ancestor tool and

600

00:26:41,609 --> 00:26:39,369

walking vertebrates provides a clear

601  
00:26:44,099 --> 00:26:41,619  
picture of how air-breathing evolved in

602  
00:26:46,950 --> 00:26:44,109  
fish before they walked onto the land

603  
00:26:48,539 --> 00:26:46,960  
and in case you're wondering Queensland

604  
00:26:50,849 --> 00:26:48,549  
lungfish are supposed to taste like a

605  
00:26:53,609 --> 00:26:50,859  
very oily salmon and they're covered in

606  
00:26:55,440 --> 00:26:53,619  
a thick sticky mucus I know that because

607  
00:26:57,450 --> 00:26:55,450  
I had to throw my shirt away after

608  
00:26:59,999 --> 00:26:57,460  
handling one of them that's it for this

609  
00:27:02,219 --> 00:27:00,009  
week in science for more information on

610  
00:27:06,450 --> 00:27:02,229  
walking on land go to the RAS website

611  
00:27:10,289 --> 00:27:06,460  
are I aus ok you follow us on twitter at

612  
00:27:13,769 --> 00:27:10,299  
our iOS and like us on Facebook I'm Paul

613  
00:27:21,210 --> 00:27:13,779

Willis and we'll catch you next week

614

00:27:26,650 --> 00:27:23,650

but gasps yours is an award-winning

615

00:27:29,530 --> 00:27:26,660

weekly science show in French hosted by

616

00:27:31,810 --> 00:27:29,540

a bunch of crazy enthusiasts we are

617

00:27:34,150 --> 00:27:31,820

convinced that the greatest ideas in

618

00:27:36,400 --> 00:27:34,160

science are quite easy to grasp as long

619

00:27:38,950 --> 00:27:36,410

as they're presented with passion using

620

00:27:41,110 --> 00:27:38,960

a vocabulary common to all curious minds

621

00:27:43,900 --> 00:27:41,120

whatever their academic background if

622

00:27:46,930 --> 00:27:43,910

any you don't understand French yet oh

623

00:27:48,790 --> 00:27:46,940

it's never too late all our stories have

624

00:27:50,560 --> 00:27:48,800

a written transcript on the website and

625

00:27:52,720 --> 00:27:50,570

people from all around the world are

626  
00:27:55,810 --> 00:27:52,730  
using our content to learn Malia's

627  
00:27:58,240 --> 00:27:55,820  
language our topics range from 0 to

628  
00:28:00,610 --> 00:27:58,250  
infinity from evolution to artificial

629  
00:28:03,250 --> 00:28:00,620  
life from electromagnetism to the

630  
00:28:06,460 --> 00:28:03,260  
science of introverts we just love

631  
00:28:09,250 --> 00:28:06,470  
mathematics science critical thinking so

632  
00:28:10,960 --> 00:28:09,260  
do you want to join you can subscribe to

633  
00:28:13,450 --> 00:28:10,970  
the podcast for free from our website

634  
00:28:16,300 --> 00:28:13,460  
podcast science thoughts FM that's in

635  
00:28:18,730 --> 00:28:16,310  
one word you also find us on itunes and

636  
00:28:34,530 --> 00:28:18,740  
soundcloud see you soon hopefully at

637  
00:28:46,030 --> 00:28:37,360  
what we want is some more evidence

638  
00:28:51,279 --> 00:28:46,040

please is Joe alabaster hello this is

639

00:28:57,500 --> 00:28:53,990

in news from New Zealand a Green Party

640

00:29:00,409 --> 00:28:57,510

MP has faced consequences after signing

641

00:29:02,360 --> 00:29:00,419

and sharing on social media a change org

642

00:29:04,549 --> 00:29:02,370

petition calling for the World Health

643

00:29:07,580 --> 00:29:04,559

Organization to test and distribute

644

00:29:11,450 --> 00:29:07,590

homeopathy to contain outbreaks of Ebola

645

00:29:14,120 --> 00:29:11,460

the petitions started by Australia's own

646

00:29:16,399 --> 00:29:14,130

franche field of homeopathy plus winner

647

00:29:18,560 --> 00:29:16,409

of the Australian skeptics 2012 bents

648

00:29:22,100 --> 00:29:18,570

bren award addresses the world health

649

00:29:24,950 --> 00:29:22,110

organization as titled quote end the

650

00:29:27,019 --> 00:29:24,960

suffering of the Ebola crisis test and

651

00:29:29,210 --> 00:29:27,029

distribute homeopathy as quickly as

652

00:29:34,789 --> 00:29:29,220

possible to contain the outbreaks and

653

00:29:36,769 --> 00:29:34,799

quote it begins quote homeopathy has a

654

00:29:39,399 --> 00:29:36,779

proven track record of treating and

655

00:29:42,019 --> 00:29:39,409

preventing serious epidemic diseases

656

00:29:45,260 --> 00:29:42,029

it's used by governments for dengue

657

00:29:47,830 --> 00:29:45,270

fever leptospirosis epidemic fever

658

00:29:51,230 --> 00:29:47,840

malaria and Japanese encephalitis

659

00:29:54,320 --> 00:29:51,240

epidemics and historically for other

660

00:29:56,720 --> 00:29:54,330

serious contagious diseases the

661

00:29:58,789 --> 00:29:56,730

appropriate homeopathic medicine remedy

662

00:30:03,380 --> 00:29:58,799

is likely to be just as effective

663

00:30:07,850 --> 00:30:03,390

against the Ebola virus end quote well

664

00:30:09,889 --> 00:30:07,860

yes just as effective as the NHMRC s

665

00:30:12,730 --> 00:30:09,899

review of homeopathy found earlier this

666

00:30:17,570 --> 00:30:12,740

year homeopathy is not effective at all

667

00:30:19,510 --> 00:30:17,580

still some continue to believe Stefan

668

00:30:22,070 --> 00:30:19,520

browning New Zealand Green Party MP

669

00:30:24,500 --> 00:30:22,080

signed the change org petition last

670

00:30:27,980 --> 00:30:24,510

month and shared it on his Facebook page

671

00:30:29,899 --> 00:30:27,990

since deleted his green party colleagues

672

00:30:33,169 --> 00:30:29,909

and other New Zealand parliamentarians

673

00:30:35,630 --> 00:30:33,179

were not impressed in a public statement

674

00:30:37,730 --> 00:30:35,640

Prime Minister John Key declared the

675

00:30:41,980 --> 00:30:37,740

idea of using homeopathy to treat Ebola

676  
00:30:46,279 --> 00:30:41,990  
virus as quote barking mad end quote

677  
00:30:48,500 --> 00:30:46,289  
quote let's be honest this is a serious

678  
00:30:50,299 --> 00:30:48,510  
global issue and if he really thinks

679  
00:30:54,500 --> 00:30:50,309  
that's the answer I'd love to see the

680  
00:30:57,770 --> 00:30:54,510  
medical research end quote speaking to

681  
00:30:59,930 --> 00:30:57,780  
the media browning stated that quote it

682  
00:31:02,330 --> 00:30:59,940  
was probably a pretty unwise thing it

683  
00:31:03,260 --> 00:31:02,340  
was pretty late at night and I signed it

684  
00:31:06,650 --> 00:31:03,270  
because I'm not a

685  
00:31:08,180 --> 00:31:06,660  
opposed to homeopathy and quote he said

686  
00:31:09,950 --> 00:31:08,190  
that he did not intend to post it to

687  
00:31:12,950 --> 00:31:09,960  
Facebook and he wasn't about to promote

688  
00:31:15,080 --> 00:31:12,960

it Browning's green party colleagues

689

00:31:17,570 --> 00:31:15,090

however decided to condemn browning

690

00:31:20,810 --> 00:31:17,580

support of the petition with Green Party

691

00:31:23,150 --> 00:31:20,820

co-leader Metiria Turei announcing that

692

00:31:27,410 --> 00:31:23,160

the party supports quote evidence-based

693

00:31:29,330 --> 00:31:27,420

health policy and quote quote we wish to

694

00:31:31,310 --> 00:31:29,340

be very clear that we support the use of

695

00:31:33,980 --> 00:31:31,320

science and evidence when it comes to

696

00:31:37,730 --> 00:31:33,990

public health policy and quote said mr.

697

00:31:40,280 --> 00:31:37,740

a quote individuals can make choices

698

00:31:42,380 --> 00:31:40,290

about their own health treatments but it

699

00:31:44,720 --> 00:31:42,390

is critical public health decisions are

700

00:31:46,340 --> 00:31:44,730

evidence-based and the consumers have

701  
00:31:48,800 --> 00:31:46,350  
appropriate evidence-based information

702  
00:31:52,730 --> 00:31:48,810  
of our alternative health products and

703  
00:31:54,560 --> 00:31:52,740  
quote the Green Party caucus met and

704  
00:31:57,410 --> 00:31:54,570  
decided to remove the natural health

705  
00:32:00,230 --> 00:31:57,420  
products portfolio from browning merging

706  
00:32:01,580 --> 00:32:00,240  
it into the health portfolio browning

707  
00:32:04,610 --> 00:32:01,590  
said he can live with losing the

708  
00:32:06,620 --> 00:32:04,620  
portfolio quote I've got some other

709  
00:32:09,020 --> 00:32:06,630  
really gutsy portfolios and I'll be

710  
00:32:13,370 --> 00:32:09,030  
working very well on them and quote he

711  
00:32:16,370 --> 00:32:13,380  
said Browning's other portfolios include

712  
00:32:19,640 --> 00:32:16,380  
agriculture biosecurity and food safety

713  
00:32:21,680 --> 00:32:19,650

a quick scan of his facebook page showed

714

00:32:23,840 --> 00:32:21,690

a post in which he encouraged people to

715

00:32:26,090 --> 00:32:23,850

attend the Food Matters conference and

716

00:32:29,270 --> 00:32:26,100

tour in Wellington which featured

717

00:32:32,300 --> 00:32:29,280

speakers such as Vandana Shiva and Jilly

718

00:32:35,420 --> 00:32:32,310

Eric seralini who avere mentally aunty

719

00:32:37,040 --> 00:32:35,430

genetic engineering in fact many posts

720

00:32:41,630 --> 00:32:37,050

on browning's Facebook wall have a

721

00:32:45,290 --> 00:32:41,640

similar anti-gmo tone dr. grant Jacobs

722

00:32:47,330 --> 00:32:45,300

on site blog Co door NZ points out that

723

00:32:50,210 --> 00:32:47,340

branning support of homeopathy for Ebola

724

00:32:52,880 --> 00:32:50,220

quote is not an idle blunder but an

725

00:32:54,560 --> 00:32:52,890

example of his thinking this line of

726

00:32:57,500 --> 00:32:54,570

thinking does not suit any portfolio

727

00:33:01,760 --> 00:32:57,510

with substantial science content some

728

00:33:04,400 --> 00:33:01,770

would say any portfolio and quote while

729

00:33:06,530 --> 00:33:04,410

homeopathy for Ebola is an absurd notion

730

00:33:08,720 --> 00:33:06,540

too much of the general public perhaps

731

00:33:11,690 --> 00:33:08,730

people are not so FA with the science of

732

00:33:13,430 --> 00:33:11,700

genetic engineering the media gave us a

733

00:33:16,280 --> 00:33:13,440

bit of a giggle at brownings gaffe with

734

00:33:17,039 --> 00:33:16,290

homeopathy which is a good thing much of

735

00:33:18,479 --> 00:33:17,049

our society

736

00:33:20,659 --> 00:33:18,489

you now understands that homeopathy

737

00:33:23,430 --> 00:33:20,669

isn't something to be taken seriously

738

00:33:25,499 --> 00:33:23,440

but with the media and public react the

739

00:33:28,200 --> 00:33:25,509

same way if a politician support of

740

00:33:31,950 --> 00:33:28,210

séralini the chat with the flawed GM fed

741

00:33:33,419 --> 00:33:31,960

rat studies was publicized as such I'd

742

00:33:35,369 --> 00:33:33,429

like to stress the importance of

743

00:33:38,609 --> 00:33:35,379

evidence-based thinking and policy

744

00:33:40,259 --> 00:33:38,619

across the board as for politicians who

745

00:33:42,810 --> 00:33:40,269

note that they're not scientists are not

746

00:33:45,600 --> 00:33:42,820

well informed on technical matters get

747

00:33:47,899 --> 00:33:45,610

informed you have access to the best and

748

00:33:58,580 --> 00:33:47,909

brightest experts on any given subject

749

00:34:08,490 --> 00:34:06,210

3 30 minute video fear of Islamic law be

750

00:34:10,319 --> 00:34:08,500

so skeptical museum was known as a stray

751  
00:34:12,000 --> 00:34:10,329  
cat recorded cars dead we need a litmus

752  
00:34:14,460 --> 00:34:12,010  
clear it algebra grampa tsuchikage

753  
00:34:16,530 --> 00:34:14,470  
podcast Petrova hooded garden engine but

754  
00:34:18,839 --> 00:34:16,540  
customs White's escaped aside a petrol

755  
00:34:23,639 --> 00:34:18,849  
bomb or still not initiated st at the

756  
00:34:25,230 --> 00:34:23,649  
web / skeptics society Raj guru hey

757  
00:34:27,299 --> 00:34:25,240  
everybody my name is carol and i'm the

758  
00:34:28,680 --> 00:34:27,309  
founder of skeptics society russia come

759  
00:34:30,899 --> 00:34:28,690  
visit us in moscow and our bi-weekly

760  
00:34:32,970 --> 00:34:30,909  
meetings and also listen to our weekly

761  
00:34:34,500 --> 00:34:32,980  
podcast which is called skeptic and the

762  
00:34:56,119 --> 00:34:34,510  
site where you can find all that is

763  
00:35:00,390 --> 00:34:59,009

well the mail is still not good from

764

00:35:02,459 --> 00:35:00,400

Richard Saunders and his couch of

765

00:35:04,289 --> 00:35:02,469

arrogance unfortunately he can't come

766

00:35:06,539 --> 00:35:04,299

off it he's still not well he can't be

767

00:35:08,370 --> 00:35:06,549

heard he can't be heard except only by

768

00:35:10,349 --> 00:35:08,380

dogs and that's not so good for a

769

00:35:12,120 --> 00:35:10,359

podcast really they the pores just can't

770

00:35:14,549 --> 00:35:12,130

work the phone it's the whole opposable

771

00:35:16,410 --> 00:35:14,559

thumb thing see I did read that book but

772

00:35:19,920 --> 00:35:16,420

for now on it's Maynard signing off from

773

00:35:21,479 --> 00:35:19,930

Maynard com a you won't come they have

774

00:35:23,160 --> 00:35:21,489

listened to one of my podcast they

775

00:35:30,239 --> 00:35:23,170

aren't as good as this but they do fill

776

00:35:33,509 --> 00:35:30,249

up about an hour by you've been

777

00:35:38,039 --> 00:35:33,519

listening to the skeptic zone visit our

778

00:35:40,529 --> 00:35:38,049

website at [www.skeptics.org](http://www.skeptics.org) on TV for

779

00:35:46,240 --> 00:35:40,539

comments contacts and extra video

780

00:36:01,060 --> 00:35:56,110

oh and before you go the 1980 penthouse

781

00:36:03,070 --> 00:36:01,070

pet of the year won a triumph tr7 or tr8

782

00:36:06,010 --> 00:36:03,080

pretty much a tr7 whether the ad engine

783

00:36:08,260 --> 00:36:06,020

put in it from rover so it was kind of

784

00:36:10,720 --> 00:36:08,270

like from the Leyland factory so I would

785

00:36:12,640 --> 00:36:10,730

suggest that the 1980s pit Australian