

1  
00:00:05,929 --> 00:00:13,699  
welcome to the skeptic zone the podcast

2  
00:00:09,089 --> 00:00:13,699  
from Australia for science and reason

3  
00:00:22,309 --> 00:00:29,848  
hello and welcome to the skeptics are an

4  
00:00:25,199 --> 00:00:33,269  
episode number 244 for the 23rd of jun

5  
00:00:29,849 --> 00:00:36,179  
2013 Richard Saunders here with you from

6  
00:00:33,268 --> 00:00:39,049  
Sydney Australia being swept away by the

7  
00:00:36,179 --> 00:00:42,259  
wind and the rain Cindy as being

8  
00:00:39,049 --> 00:00:45,000  
buffeted buffeted by all manner of

9  
00:00:42,259 --> 00:00:47,308  
storms and floods and rain and I think

10  
00:00:45,000 --> 00:00:49,558  
there's worse to come but before we get

11  
00:00:47,308 --> 00:00:50,789  
on to what's on this week so a big thank

12  
00:00:49,558 --> 00:00:53,878  
you to all those people who have been

13  
00:00:50,789 --> 00:00:57,988  
writing to me wishing me well with my

14  
00:00:53,878 --> 00:01:01,738  
ongoing sinus infection so many people

15  
00:00:57,988 --> 00:01:05,489  
encouraging me to take homeopathy well

16  
00:01:01,738 --> 00:01:08,009  
gee thanks people I'm certainly looking

17  
00:01:05,489 --> 00:01:10,409  
forward to getting better soon any way

18  
00:01:08,009 --> 00:01:13,319  
to kick off this week's show maynards

19  
00:01:10,409 --> 00:01:15,840  
spooky action made out of myself well

20  
00:01:13,319 --> 00:01:19,008  
lucky enough to attend thee well the

21  
00:01:15,840 --> 00:01:22,590  
sydney farewell party of Cosmos magazine

22  
00:01:19,009 --> 00:01:24,810  
cosmos magazine is pulling up its stakes

23  
00:01:22,590 --> 00:01:28,409  
here in sydney and moving to melbourne

24  
00:01:24,810 --> 00:01:31,978  
may not interviews are departing editor

25  
00:01:28,409 --> 00:01:33,390  
off cosmos magazine wilson de silva now

26  
00:01:31,978 --> 00:01:35,310  
we've been following the progress of

27  
00:01:33,390 --> 00:01:37,799  
Cosmos magazine very carefully over the

28  
00:01:35,310 --> 00:01:40,460  
years at the australian skeptics and the

29

00:01:37,799 --> 00:01:43,560  
skeptical zone a wonderful magazine and

30  
00:01:40,459 --> 00:01:45,530  
well Wilson gives Maynard his

31  
00:01:43,560 --> 00:01:49,439  
impressions on the whole magazine

32  
00:01:45,530 --> 00:01:51,269  
business scientific journalism following

33  
00:01:49,439 --> 00:01:52,859  
that it's a week in science without good

34  
00:01:51,269 --> 00:01:55,798  
friend dr. Paul Willis from the Royal

35  
00:01:52,859 --> 00:01:58,379  
Institution of Australia and this week I

36  
00:01:55,799 --> 00:02:00,450  
think he covers the the interesting news

37  
00:01:58,379 --> 00:02:03,390  
I've sort of been following it as well

38  
00:02:00,450 --> 00:02:05,400  
and no doubt you may have heard this too

39  
00:02:03,390 --> 00:02:09,288  
but they have discovered a way to had

40  
00:02:05,400 --> 00:02:12,289  
even more data onto a DVD some

41  
00:02:09,288 --> 00:02:14,938  
stupefyingly huge amount of data

42  
00:02:12,289 --> 00:02:18,329  
interesting stuff and after that we have

43  
00:02:14,938 --> 00:02:21,500

a guest editorial a guest editorial from

44

00:02:18,330 --> 00:02:23,879

sharon hill from doubtful news com

45

00:02:21,500 --> 00:02:26,699

sharon wrote a very interesting piece

46

00:02:23,878 --> 00:02:30,120

called quoted and someone wants to tell

47

00:02:26,699 --> 00:02:32,429

me their paranormal story she says

48

00:02:30,120 --> 00:02:35,370

one of the hazards of being a skeptic

49

00:02:32,430 --> 00:02:36,959

about paranormal subjects is that those

50

00:02:35,370 --> 00:02:39,810

who have had their own personal

51

00:02:36,959 --> 00:02:43,140

experiences or investigated a peculiar

52

00:02:39,810 --> 00:02:46,110

case like to play stumped the skeptic

53

00:02:43,139 --> 00:02:48,268

that editorial our guest editorial who's

54

00:02:46,110 --> 00:02:50,340

sharon hill coming up a bit later on in

55

00:02:48,269 --> 00:02:54,000

the skeptic zone and to round off the

56

00:02:50,340 --> 00:02:56,700

show it's dr. rachy reports dr. Richie

57

00:02:54,000 --> 00:02:58,889

will be talking to dr. david hawks who

58  
00:02:56,699 --> 00:03:01,709  
is a medical virologist at the flory

59  
00:02:58,889 --> 00:03:04,169  
institute in melbourne now dr. Hawks

60  
00:03:01,709 --> 00:03:07,229  
will be talking to dr. Richie about the

61  
00:03:04,169 --> 00:03:09,000  
HPV vaccine a fascinating interview a

62  
00:03:07,229 --> 00:03:11,219  
fascinating interview and a bit strange

63  
00:03:09,000 --> 00:03:14,310  
because as we discovered during the

64  
00:03:11,219 --> 00:03:16,560  
course of the interview dr. Hawks dog is

65  
00:03:14,310 --> 00:03:19,319  
chewing on some cables or playing near

66  
00:03:16,560 --> 00:03:21,390  
the computer so you'll hear some pops

67  
00:03:19,318 --> 00:03:24,208  
and squeaks and scrapes along the way

68  
00:03:21,389 --> 00:03:26,518  
please forgive those it's worth it just

69  
00:03:24,209 --> 00:03:28,289  
to hear the interview anyway with the

70  
00:03:26,519 --> 00:03:30,209  
rain oh no here it comes again with the

71  
00:03:28,289 --> 00:03:33,650  
rain pelting outside the window it's

72  
00:03:30,209 --> 00:03:37,139  
time for me to run downstairs have a

73  
00:03:33,650 --> 00:03:41,129  
curry curried vegetables with peanuts

74  
00:03:37,139 --> 00:03:43,739  
and sesame oil if that doesn't knock

75  
00:03:41,129 --> 00:03:46,079  
this sinus infection on the head nothing

76  
00:03:43,739 --> 00:03:49,669  
will well I'm doing that I hope you

77  
00:03:46,079 --> 00:03:49,669  
enjoy the skeptic zone

78  
00:04:02,469 --> 00:04:10,120  
here's may not spooky action at the

79  
00:04:07,669 --> 00:04:10,119  
distance

80  
00:04:11,039 --> 00:04:15,789  
well people I'm at one of these dues

81  
00:04:13,930 --> 00:04:17,620  
that are they do that you want to go to

82  
00:04:15,789 --> 00:04:20,069  
the number one on the Sydney social

83  
00:04:17,620 --> 00:04:22,840  
calendar tonight is the cosmos is

84  
00:04:20,069 --> 00:04:24,370  
pinging off from Sydney launch is that

85  
00:04:22,839 --> 00:04:26,469  
what it is how do we describe this ten

86

00:04:24,370 --> 00:04:28,720  
years of that we're here for Wilson

87  
00:04:26,470 --> 00:04:30,520  
that's right it's um it's the end of the

88  
00:04:28,720 --> 00:04:33,460  
Sydney chapter of cosmos and onto the

89  
00:04:30,519 --> 00:04:36,729  
Melbourne chapter where the our partners

90  
00:04:33,459 --> 00:04:39,969  
Alan and Lizzy Finkel our have bought it

91  
00:04:36,730 --> 00:04:42,460  
off us Kylie Ahern and I will service

92  
00:04:39,970 --> 00:04:44,260  
will establish that card not quite ten

93  
00:04:42,459 --> 00:04:46,239  
years eight years almost nine years ago

94  
00:04:44,259 --> 00:04:48,009  
so you'll let the larry flynt of science

95  
00:04:46,240 --> 00:04:50,019  
publishing it in australia is that right

96  
00:04:48,009 --> 00:04:52,240  
only I'm not in a wheelchair and we

97  
00:04:50,019 --> 00:04:53,829  
don't without that revealing well it has

98  
00:04:52,240 --> 00:04:55,360  
to be said just had a shot at you

99  
00:04:53,829 --> 00:04:57,189  
everything it has to be said we are

100  
00:04:55,360 --> 00:04:58,960

still the only site in the only magazine

101

00:04:57,189 --> 00:05:01,719

in the world were published an erect

102

00:04:58,959 --> 00:05:03,159

penis on the cover and at what however

103

00:05:01,720 --> 00:05:05,919

it wasn't a human species it was a

104

00:05:03,160 --> 00:05:07,780

beetle penis and we have no we and we

105

00:05:05,918 --> 00:05:10,418

have published we have published breasts

106

00:05:07,779 --> 00:05:12,549

always in a discussion of course of

107

00:05:10,418 --> 00:05:13,990

science and therefore you know people

108

00:05:12,550 --> 00:05:16,060

say hey you know this is not racy so

109

00:05:13,990 --> 00:05:17,319

answers on Tracy it's very sexy it's

110

00:05:16,060 --> 00:05:18,399

full of interesting stuff you just have

111

00:05:17,319 --> 00:05:19,750

to know what you look for and it's full

112

00:05:18,399 --> 00:05:21,250

of controversy what's the most

113

00:05:19,750 --> 00:05:22,839

controversial thing you've been involved

114

00:05:21,250 --> 00:05:26,519

in publishing during the history of

115  
00:05:22,839 --> 00:05:31,839  
Cosmos so far look when Simon Singh got

116  
00:05:26,519 --> 00:05:34,719  
done for for the attack on the the

117  
00:05:31,839 --> 00:05:36,579  
chiropractor's he wrote an article for

118  
00:05:34,720 --> 00:05:38,169  
The Guardian that was considered

119  
00:05:36,579 --> 00:05:39,788  
libelous and he spent a quite a bit of

120  
00:05:38,168 --> 00:05:42,849  
money in defending that we thought it

121  
00:05:39,788 --> 00:05:45,610  
was an important issue to show that

122  
00:05:42,850 --> 00:05:47,169  
science writers can write something that

123  
00:05:45,610 --> 00:05:49,750  
is critical at but unfortunately under

124  
00:05:47,168 --> 00:05:51,099  
British libel laws they can get done but

125  
00:05:49,750 --> 00:05:53,410  
you can't get done on the Australian

126  
00:05:51,100 --> 00:05:55,389  
laws in the same sort of saying the same

127  
00:05:53,410 --> 00:05:58,360  
thing so we'll republish the article and

128  
00:05:55,389 --> 00:05:59,560  
when we proposed at the simon he said

129  
00:05:58,360 --> 00:06:01,150  
they actually been approached by some

130  
00:05:59,560 --> 00:06:03,839  
other blogs so we turn it into a

131  
00:06:01,149 --> 00:06:06,939  
national international day of action and

132  
00:06:03,839 --> 00:06:08,859  
cosmos led the publication of that

133  
00:06:06,939 --> 00:06:10,810  
article along with a thousand other

134  
00:06:08,860 --> 00:06:13,160  
blogs around the world and we all said

135  
00:06:10,810 --> 00:06:15,620  
so sue us

136  
00:06:13,160 --> 00:06:18,080  
and have you actually got many cease and

137  
00:06:15,620 --> 00:06:19,610  
desist letters at the cosmos over the

138  
00:06:18,079 --> 00:06:22,639  
years now we haven't in fact like most

139  
00:06:19,610 --> 00:06:24,830  
science magazines we get theories of

140  
00:06:22,639 --> 00:06:26,269  
physics theories of you know that

141  
00:06:24,829 --> 00:06:28,310  
explains why the speed of light should

142  
00:06:26,269 --> 00:06:30,049  
be X and you know but basically it's

143

00:06:28,310 --> 00:06:31,519  
lots of fun to go through them my

144  
00:06:30,050 --> 00:06:34,310  
favorite one was the one that was

145  
00:06:31,519 --> 00:06:36,549  
written in in red very closely spaced

146  
00:06:34,310 --> 00:06:38,780  
both sides of the paper and in Spanish

147  
00:06:36,550 --> 00:06:41,509  
and you put all these in a box somewhere

148  
00:06:38,779 --> 00:06:43,309  
is a magic box we used to you know it

149  
00:06:41,509 --> 00:06:46,490  
was lost him one of the ships of

150  
00:06:43,310 --> 00:06:48,680  
officers it was lost in to me to my you

151  
00:06:46,490 --> 00:06:49,939  
know I really missed that because there

152  
00:06:48,680 --> 00:06:52,370  
was some really freaky stuff in that

153  
00:06:49,939 --> 00:06:53,719  
some stuff from Romania from and then

154  
00:06:52,370 --> 00:06:55,550  
this one in which is written in Spanish

155  
00:06:53,720 --> 00:06:58,970  
and luckily I can't read spanish the

156  
00:06:55,550 --> 00:07:00,949  
what it said in spanish was it very much

157  
00:06:58,970 --> 00:07:03,350

enjoyed your series on the planets I'm

158

00:07:00,949 --> 00:07:05,990

wondering if you can help me I visited a

159

00:07:03,350 --> 00:07:07,010

planet recently and here's the

160

00:07:05,990 --> 00:07:08,720

description I was wondering if you could

161

00:07:07,009 --> 00:07:10,849

tell me which planet it might be and it

162

00:07:08,720 --> 00:07:12,410

was a in our solar system or not as far

163

00:07:10,850 --> 00:07:15,170

as I can tell yes it was instead of

164

00:07:12,410 --> 00:07:17,030

feather the able to help him yes I think

165

00:07:15,170 --> 00:07:19,850

it was a her I think it was um it was

166

00:07:17,029 --> 00:07:22,250

Mars but look you know there's been lots

167

00:07:19,850 --> 00:07:24,770

of fun the controversy yes we've taken

168

00:07:22,250 --> 00:07:27,500

strong positions on pro nuclear power

169

00:07:24,769 --> 00:07:30,379

but anti-nuclear weapons we've been very

170

00:07:27,500 --> 00:07:32,660

strongly on climate change we get

171

00:07:30,379 --> 00:07:35,360

attacked a lot about climate change and

172  
00:07:32,660 --> 00:07:37,160  
some people object that we don't publish

173  
00:07:35,360 --> 00:07:39,500  
their letters well guess what we're not

174  
00:07:37,160 --> 00:07:41,930  
the ABC we're a private organization if

175  
00:07:39,500 --> 00:07:44,269  
your letters is ridiculous and you don't

176  
00:07:41,930 --> 00:07:45,829  
get the point and you refuse to use

177  
00:07:44,269 --> 00:07:48,409  
facts in your argument you don't get

178  
00:07:45,829 --> 00:07:49,939  
published vaccination we've run strong

179  
00:07:48,410 --> 00:07:51,919  
stories and I vaccination and we're

180  
00:07:49,939 --> 00:07:54,230  
attack in fact we'll try it where they

181  
00:07:51,918 --> 00:07:57,209  
try to take us to the Press Council over

182  
00:07:54,230 --> 00:07:59,520  
the issue and failed

183  
00:07:57,209 --> 00:08:01,829  
and yeah we've been very very more than

184  
00:07:59,519 --> 00:08:04,318  
one line that it's continuously we've

185  
00:08:01,829 --> 00:08:06,019  
continuously run is that we are pro

186  
00:08:04,319 --> 00:08:08,400  
science to the exclusion of all else

187  
00:08:06,019 --> 00:08:09,659  
Wilson what's the most satisfying thing

188  
00:08:08,399 --> 00:08:11,668  
and most of us will never experience

189  
00:08:09,660 --> 00:08:12,930  
this being a publisher of a magazine

190  
00:08:11,668 --> 00:08:15,990  
what's the thing that is really

191  
00:08:12,930 --> 00:08:19,470  
satisfying about that there are many

192  
00:08:15,990 --> 00:08:22,560  
many things getting letters from kids in

193  
00:08:19,470 --> 00:08:24,569  
their teens who say that they've decided

194  
00:08:22,560 --> 00:08:28,530  
to do science because of you that that

195  
00:08:24,569 --> 00:08:30,720  
is moving to get a birthday card on the

196  
00:08:28,529 --> 00:08:32,610  
7th anniversary chose a year ago from a

197  
00:08:30,720 --> 00:08:34,709  
subscriber who says I have just loved

198  
00:08:32,610 --> 00:08:37,440  
your magazine so very much I thought it

199  
00:08:34,708 --> 00:08:39,449  
was important for me to send your birth

200

00:08:37,440 --> 00:08:40,860  
eka not lovely little moments like that

201  
00:08:39,450 --> 00:08:42,810  
talking to subscribers when you're there

202  
00:08:40,860 --> 00:08:44,820  
at light at night editing something and

203  
00:08:42,809 --> 00:08:47,369  
you take a call and subscriber and how

204  
00:08:44,820 --> 00:08:49,830  
how they tell you how much it means to

205  
00:08:47,370 --> 00:08:52,049  
them that sort of stuff you can't buy

206  
00:08:49,830 --> 00:08:55,200  
that sort of stuff that's real it's um

207  
00:08:52,049 --> 00:08:59,879  
it's it's it just comes from the heart

208  
00:08:55,200 --> 00:09:01,950  
and I I will walk away knowing that we

209  
00:08:59,879 --> 00:09:03,450  
did this we've we've you know one of the

210  
00:09:01,950 --> 00:09:05,100  
things you hope in life is that you have

211  
00:09:03,450 --> 00:09:07,920  
an impact and I think we've had an

212  
00:09:05,100 --> 00:09:09,480  
impact you get these you know for

213  
00:09:07,919 --> 00:09:11,578  
example we have a section which began

214  
00:09:09,480 --> 00:09:14,190

about five years ago called wearing the

215

00:09:11,578 --> 00:09:16,739

cosmos it's a section where we published

216

00:09:14,190 --> 00:09:19,529

pictures of people in weird bizarre

217

00:09:16,740 --> 00:09:22,560

places holding up copies of cosmos that

218

00:09:19,528 --> 00:09:24,269

they're reading we didn't start that we

219

00:09:22,559 --> 00:09:25,500

just started sending us that and then we

220

00:09:24,269 --> 00:09:26,879

thought well let's start publishing it

221

00:09:25,500 --> 00:09:28,470

and of course as soon as we published it

222

00:09:26,879 --> 00:09:31,350

more and more and more that's a regular

223

00:09:28,470 --> 00:09:34,350

section that shows the kind of love that

224

00:09:31,350 --> 00:09:36,240

people have for the magazine and I kind

225

00:09:34,350 --> 00:09:37,350

of you kind of wonder why is it I mean

226

00:09:36,240 --> 00:09:40,289

it's just a science magazine but it's

227

00:09:37,350 --> 00:09:42,659

not though we we do we are literally in

228

00:09:40,289 --> 00:09:44,189

our approach but we also take the piss

229  
00:09:42,659 --> 00:09:46,019  
out of ourselves we also you know have a

230  
00:09:44,190 --> 00:09:48,329  
bit of a laugh and I think people get

231  
00:09:46,019 --> 00:09:50,338  
that sort of literary high-minded yet

232  
00:09:48,328 --> 00:09:52,109  
able to laugh at ourselves I think they

233  
00:09:50,339 --> 00:09:54,420  
they really get that so that's cool

234  
00:09:52,110 --> 00:09:55,620  
that's probably the best Wilson what do

235  
00:09:54,419 --> 00:09:56,819  
you think you'd like to go into you want

236  
00:09:55,620 --> 00:09:58,889  
to do more publishing you want to

237  
00:09:56,820 --> 00:10:00,060  
continue in the science field as I said

238  
00:09:58,889 --> 00:10:01,588  
since everything's moving to melbourne

239  
00:10:00,059 --> 00:10:03,328  
there would you there's a lot of gaps in

240  
00:10:01,589 --> 00:10:03,649  
the Australian magazine market and the

241  
00:10:03,328 --> 00:10:05,899  
whole

242  
00:10:03,649 --> 00:10:07,249  
industry is in turmoil at the moment is

243

00:10:05,899 --> 00:10:08,869

it a time to go and try and start

244

00:10:07,249 --> 00:10:11,509

something was the time to sit back and

245

00:10:08,869 --> 00:10:15,319

just see what happens I've just had a

246

00:10:11,509 --> 00:10:17,419

little girl and a twix egg weeks old so

247

00:10:15,318 --> 00:10:18,349

I'm not keen to rush into anything I

248

00:10:17,419 --> 00:10:21,678

certainly don't want to start a business

249

00:10:18,350 --> 00:10:24,139

I'm probably going to sit back and

250

00:10:21,678 --> 00:10:26,958

either getting back into films or maybe

251

00:10:24,139 --> 00:10:28,249

write some books I mean complaining

252

00:10:26,958 --> 00:10:30,169

about not having the time to write a

253

00:10:28,249 --> 00:10:32,300

book for ages well now I'm going to have

254

00:10:30,169 --> 00:10:33,708

some time as you look around the

255

00:10:32,299 --> 00:10:35,328

Australian publishing industry is there

256

00:10:33,708 --> 00:10:36,979

is there any comment you'd like to make

257

00:10:35,328 --> 00:10:38,328  
on it is is there any obvious mistakes

258  
00:10:36,980 --> 00:10:39,438  
that they're making it that they can't

259  
00:10:38,328 --> 00:10:42,019  
see they're running into a brick wall

260  
00:10:39,438 --> 00:10:45,019  
it's not it's not just the publishers

261  
00:10:42,019 --> 00:10:47,360  
false you know it's the market is

262  
00:10:45,019 --> 00:10:48,639  
changing so dramatically there are three

263  
00:10:47,360 --> 00:10:50,928  
things happening at the same time

264  
00:10:48,639 --> 00:10:52,519  
advertising is disappearing one of the

265  
00:10:50,928 --> 00:10:54,740  
things that we people relied on so much

266  
00:10:52,519 --> 00:10:55,999  
is disappearing into areas that where

267  
00:10:54,740 --> 00:11:01,308  
once they might have got a hundred

268  
00:10:55,999 --> 00:11:02,778  
dollars per pair of eyes or but now

269  
00:11:01,308 --> 00:11:04,969  
they're getting like one-tenth of one

270  
00:11:02,778 --> 00:11:08,178  
cent because everything is moving online

271  
00:11:04,970 --> 00:11:11,480

so the model the financial model on

272

00:11:08,178 --> 00:11:13,578  
advertising side is changing the at the

273

00:11:11,480 --> 00:11:15,589  
same time that the platforms are coming

274

00:11:13,578 --> 00:11:17,088  
in that people have to deploy content

275

00:11:15,589 --> 00:11:19,699  
not just in print which is one platform

276

00:11:17,089 --> 00:11:21,170  
but a number of platforms and even

277

00:11:19,698 --> 00:11:23,778  
within the Android platform you have

278

00:11:21,169 --> 00:11:25,490  
five different flavors so theoretically

279

00:11:23,778 --> 00:11:27,110  
you should have to republish your

280

00:11:25,490 --> 00:11:30,079  
material and redesign it five different

281

00:11:27,110 --> 00:11:33,169  
times just for Android you know ipad at

282

00:11:30,078 --> 00:11:35,989  
least it's one these are so there are

283

00:11:33,169 --> 00:11:39,318  
tectonic shifts happening in publishing

284

00:11:35,990 --> 00:11:41,539  
that hack actually make it very very

285

00:11:39,318 --> 00:11:43,039  
hard to invest your money in that area

286  
00:11:41,539 --> 00:11:44,748  
and know that you're gonna get a return

287  
00:11:43,039 --> 00:11:46,308  
so it's not just a case that publishers

288  
00:11:44,749 --> 00:11:47,420  
are making the wrong decision what is

289  
00:11:46,308 --> 00:11:49,370  
happening is if you make the wrong

290  
00:11:47,419 --> 00:11:51,620  
decisions publisher your margin of error

291  
00:11:49,370 --> 00:11:54,048  
is so thin now because a advertising

292  
00:11:51,620 --> 00:11:56,089  
disappearing and there's these you know

293  
00:11:54,048 --> 00:11:57,919  
tsunamis of technological change coming

294  
00:11:56,089 --> 00:11:58,540  
and people don't know how they're going

295  
00:11:57,919 --> 00:12:01,000  
to

296  
00:11:58,539 --> 00:12:02,709  
but look my suspicion is it's actually a

297  
00:12:01,000 --> 00:12:05,799  
really good time to invest in publishing

298  
00:12:02,710 --> 00:12:07,750  
I think that the technology is going to

299  
00:12:05,799 --> 00:12:09,669  
provide us more opportunity to figure

300  
00:12:07,750 --> 00:12:12,340  
out how to get to people with engaging

301  
00:12:09,669 --> 00:12:14,439  
content it's just that until we figure

302  
00:12:12,340 --> 00:12:17,200  
out the models are pay it's going to be

303  
00:12:14,440 --> 00:12:18,520  
a bit you know bit tense and what do you

304  
00:12:17,200 --> 00:12:24,940  
think of the standard of science

305  
00:12:18,519 --> 00:12:26,350  
journalism in Australia I like I like it

306  
00:12:24,940 --> 00:12:30,550  
when people laugh at the beginning of an

307  
00:12:26,350 --> 00:12:33,190  
answer it is patchy there are some

308  
00:12:30,549 --> 00:12:35,620  
places where it is excellent and there

309  
00:12:33,190 --> 00:12:39,280  
are places where it is perfunctory if it

310  
00:12:35,620 --> 00:12:40,810  
exists at all i think that the kind of

311  
00:12:39,279 --> 00:12:42,399  
professionalism that we see in science

312  
00:12:40,809 --> 00:12:45,189  
journalism in the united states and

313  
00:12:42,399 --> 00:12:47,289  
canada we don't see much of it here in

314

00:12:45,190 --> 00:12:49,060  
fact i've written about this in the

315  
00:12:47,289 --> 00:12:52,899  
walkley magazine for journalists about

316  
00:12:49,059 --> 00:12:55,899  
how bad it can get in australia i mean i

317  
00:12:52,899 --> 00:12:57,370  
remember when i told a friend that I was

318  
00:12:55,899 --> 00:12:59,110  
leaving I used to work at what is a

319  
00:12:57,370 --> 00:13:02,200  
foreign correspondent and I was reading

320  
00:12:59,110 --> 00:13:04,720  
the press gallery in Canberra to go and

321  
00:13:02,200 --> 00:13:06,040  
work in a science magazine he said why

322  
00:13:04,720 --> 00:13:07,870  
would you piss your career down the

323  
00:13:06,039 --> 00:13:10,629  
toilet like that and that was the

324  
00:13:07,870 --> 00:13:12,100  
attitude and tool in many many places

325  
00:13:10,629 --> 00:13:14,259  
still the attitude among us journalist

326  
00:13:12,100 --> 00:13:15,970  
it isn't respected science journalism

327  
00:13:14,259 --> 00:13:18,039  
and I think until we have respect for

328  
00:13:15,970 --> 00:13:19,779

science journalism instead of something

329

00:13:18,039 --> 00:13:20,860

like political reporting or financial

330

00:13:19,779 --> 00:13:22,689

reporting so we have a respect for

331

00:13:20,860 --> 00:13:23,919

science or even sports reporting sport

332

00:13:22,690 --> 00:13:25,660

the sports reporting gets all this

333

00:13:23,919 --> 00:13:27,849

respect for something that in the end

334

00:13:25,659 --> 00:13:30,459

doesn't really matter it really doesn't

335

00:13:27,850 --> 00:13:31,779

I get this in a newspaper you have the

336

00:13:30,460 --> 00:13:33,250

soccer writer and you have the rugby

337

00:13:31,779 --> 00:13:34,779

writer and you have even the union

338

00:13:33,250 --> 00:13:36,700

writer and you have the where's the

339

00:13:34,779 --> 00:13:38,769

geology rider exactly anything in

340

00:13:36,700 --> 00:13:41,410

science you're supposed to be one person

341

00:13:38,769 --> 00:13:44,740

usually who has to cover all the

342

00:13:41,409 --> 00:13:46,209

sciences genetics to cosmology and oh by

343  
00:13:44,740 --> 00:13:48,820  
the way if nothing's happening a science

344  
00:13:46,210 --> 00:13:50,470  
can you help out with something else all

345  
00:13:48,820 --> 00:13:52,390  
right so yeah so--but you think there is

346  
00:13:50,470 --> 00:13:53,649  
hope we've got to end on a hopeful note

347  
00:13:52,389 --> 00:13:55,319  
here there is hope I think there is

348  
00:13:53,649 --> 00:13:56,610  
actually hope this is a really good time

349  
00:13:55,320 --> 00:13:58,649  
if

350  
00:13:56,610 --> 00:13:59,940  
the technology is making it possible for

351  
00:13:58,649 --> 00:14:02,000  
us to reach people in a way that

352  
00:13:59,940 --> 00:14:04,200  
previously you couldn't you just gotta

353  
00:14:02,000 --> 00:14:05,759  
publishers have got to just hang on and

354  
00:14:04,200 --> 00:14:08,910  
stick the quality the one thing about

355  
00:14:05,759 --> 00:14:11,250  
the digital revolution that seems to be

356  
00:14:08,909 --> 00:14:13,828  
holding true is that if you were doing

357  
00:14:11,250 --> 00:14:16,049  
really crappy stuff you you won't last

358  
00:14:13,828 --> 00:14:17,489  
now because it's there's so much stuff

359  
00:14:16,049 --> 00:14:20,250  
around that people are gravitating

360  
00:14:17,490 --> 00:14:21,509  
towards good what you know that by good

361  
00:14:20,250 --> 00:14:23,250  
I mean it could be you might be doing

362  
00:14:21,509 --> 00:14:25,559  
celebrity stuff but is it good that's

363  
00:14:23,250 --> 00:14:28,470  
are you good at celebrity so I only I

364  
00:14:25,559 --> 00:14:29,819  
think only a few publishers will be

365  
00:14:28,470 --> 00:14:31,980  
state left standing at the end of it

366  
00:14:29,820 --> 00:14:33,720  
those that produce quality stuff so why

367  
00:14:31,980 --> 00:14:36,839  
not start your business producing

368  
00:14:33,720 --> 00:14:38,180  
quality it's worked for us mmm now

369  
00:14:36,839 --> 00:14:40,529  
there's a number of riders out there

370  
00:14:38,179 --> 00:14:42,000  
that you work in the celebrity field in

371

00:14:40,528 --> 00:14:43,950  
the news field that get a lot of

372  
00:14:42,000 --> 00:14:45,929  
attraction to their name and their blogs

373  
00:14:43,950 --> 00:14:47,579  
by creating controversy there's that

374  
00:14:45,929 --> 00:14:49,319  
necessarily work in science or do people

375  
00:14:47,578 --> 00:14:52,708  
not respect you if you do that no I

376  
00:14:49,320 --> 00:14:54,750  
don't respect you controversy where it's

377  
00:14:52,708 --> 00:14:57,719  
based on science is okay so we ran a

378  
00:14:54,750 --> 00:14:59,399  
piece on a cover story on mass delusions

379  
00:14:57,720 --> 00:15:02,009  
which was basically about why people

380  
00:14:59,399 --> 00:15:03,809  
believe in crazy stuff and that did

381  
00:15:02,009 --> 00:15:05,669  
really really well what was funny for me

382  
00:15:03,809 --> 00:15:09,359  
was that the people who believe in crazy

383  
00:15:05,669 --> 00:15:11,278  
stuff bullet to they work at this fire

384  
00:15:09,360 --> 00:15:14,459  
they get a double dip yeah yeah double

385  
00:15:11,278 --> 00:15:16,230

dip so that was intriguing but yeah we

386

00:15:14,458 --> 00:15:17,518

were we were really rubbing their noses

387

00:15:16,230 --> 00:15:18,600

in it but yet they bought it and they

388

00:15:17,519 --> 00:15:21,209

wanted to write to us and saying hello

389

00:15:18,600 --> 00:15:23,240

it's not quite as you say um but not as

390

00:15:21,208 --> 00:15:25,289

you know sir chasing controlscontrol

391

00:15:23,240 --> 00:15:27,870

controversy for its own sake never

392

00:15:25,289 --> 00:15:30,000

achieves anything if for example when we

393

00:15:27,870 --> 00:15:32,730

did a cover story on thorium reactors

394

00:15:30,000 --> 00:15:34,828

which are a new potential nuclear I'm

395

00:15:32,730 --> 00:15:36,209

bit of a fan of that I'm of the the

396

00:15:34,828 --> 00:15:38,519

Indians and the Indonesians could

397

00:15:36,208 --> 00:15:40,078

actually beat us to this exactly so the

398

00:15:38,519 --> 00:15:41,639

particular type of thorium were talking

399

00:15:40,078 --> 00:15:44,189

about it accelerated Rivlin subcritical

400  
00:15:41,639 --> 00:15:45,419  
nuclear reactors these ones bernal

401  
00:15:44,190 --> 00:15:47,550  
nuclear waste is part of the process

402  
00:15:45,419 --> 00:15:49,610  
this is really exciting and we went

403  
00:15:47,549 --> 00:15:51,809  
really really hard saying things like

404  
00:15:49,610 --> 00:15:53,339  
coal-fired power stations need to be

405  
00:15:51,809 --> 00:15:55,198  
shut down we should not build another

406  
00:15:53,339 --> 00:15:57,570  
coal-fired power station in Australia

407  
00:15:55,198 --> 00:15:59,819  
all the world there's another 500 plan

408  
00:15:57,570 --> 00:16:01,560  
to be built in China in the next 15

409  
00:15:59,820 --> 00:16:03,629  
years and we said when you have

410  
00:16:01,559 --> 00:16:05,500  
technology like this which burns all

411  
00:16:03,629 --> 00:16:07,240  
nuclear waste and generates power

412  
00:16:05,500 --> 00:16:09,100  
why on earth would you create another

413  
00:16:07,240 --> 00:16:10,930  
coal-fired power station when you know

414  
00:16:09,100 --> 00:16:14,139  
that the people who live near qualified

415  
00:16:10,929 --> 00:16:16,509  
power stations have high death rates

416  
00:16:14,139 --> 00:16:18,580  
higher rates of cancer are exposed to

417  
00:16:16,509 --> 00:16:20,860  
more radiation because of the coal ash

418  
00:16:18,580 --> 00:16:23,560  
flying off and guess what they kill

419  
00:16:20,860 --> 00:16:25,120  
26,000 people a year by putting by the

420  
00:16:23,559 --> 00:16:26,649  
admitting that stuff like that gun kelly

421  
00:16:25,120 --> 00:16:28,060  
into the atmosphere and I asked

422  
00:16:26,649 --> 00:16:29,709  
breathing it in and having heart attacks

423  
00:16:28,059 --> 00:16:32,500  
earlier than we were otherwise might

424  
00:16:29,710 --> 00:16:36,250  
have well and I bet you got mail about

425  
00:16:32,500 --> 00:16:38,559  
that oh yeah we got a lot of mail well

426  
00:16:36,250 --> 00:16:40,059  
are you actually on radio once somebody

427  
00:16:38,559 --> 00:16:42,009  
said are you seriously saying we should

428

00:16:40,059 --> 00:16:44,679  
shut down coal-fired power stations was

429  
00:16:42,009 --> 00:16:46,480  
a commercial radio station I said yes I

430  
00:16:44,679 --> 00:16:48,309  
need know how to react to that because

431  
00:16:46,480 --> 00:16:52,480  
he expect me saying well no of course oh

432  
00:16:48,309 --> 00:16:53,709  
no no no yes shut them all down now well

433  
00:16:52,480 --> 00:16:55,990  
I hope you don't get as much controversy

434  
00:16:53,710 --> 00:16:57,700  
just with an eight-year-old kid no

435  
00:16:55,990 --> 00:17:00,070  
absolutely not okay well look thank you

436  
00:16:57,700 --> 00:17:01,450  
enjoy your quiet life for a while anyway

437  
00:17:00,070 --> 00:17:04,710  
thanks very much you wait to live a

438  
00:17:01,450 --> 00:17:04,710  
teenager yeah

439  
00:17:15,689 --> 00:17:20,319  
hi there this is ben Radford from

440  
00:17:18,279 --> 00:17:22,990  
skeptical inquirer magazine the monster

441  
00:17:20,318 --> 00:17:24,879  
talk podcast Discovery News skeptical

442  
00:17:22,990 --> 00:17:26,019

countries is and elsewhere you may also

443

00:17:24,880 --> 00:17:27,819

know me as the guy that's all the

444

00:17:26,019 --> 00:17:29,079

chupacabra mystery I want to let you

445

00:17:27,818 --> 00:17:31,629

know about a cool new board game I

446

00:17:29,079 --> 00:17:33,970

created cult undead apocalypse war the

447

00:17:31,630 --> 00:17:36,130

Damned undead apocalypse has vampires

448

00:17:33,970 --> 00:17:37,990

and werewolves and zombies all battling

449

00:17:36,130 --> 00:17:39,850

it out in a post-apocalyptic world with

450

00:17:37,990 --> 00:17:42,130

humans so it's sort of like Mad Max

451

00:17:39,849 --> 00:17:43,839

meets the walking dead so if you're

452

00:17:42,130 --> 00:17:46,180

interested in zombies and werewolves and

453

00:17:43,839 --> 00:17:48,490

vampires or board games of any kind or

454

00:17:46,180 --> 00:17:51,370

my work please check it out thanks i

455

00:17:48,490 --> 00:17:53,349

appreciate undead apocalypse the

456

00:17:51,369 --> 00:17:57,009

fast-paced board game where you control

457  
00:17:53,349 --> 00:18:00,099  
armies of zombies vampires werewolves

458  
00:17:57,009 --> 00:18:03,069  
and humans in Earth's final war of the

459  
00:18:00,099 --> 00:18:06,129  
damned learn more at undead board game

460  
00:18:03,069 --> 00:18:17,649  
com or support us on kickstarter com

461  
00:18:06,130 --> 00:18:20,620  
before july eighth welcome to awaken

462  
00:18:17,650 --> 00:18:24,190  
science from our iOS this week new mega

463  
00:18:20,619 --> 00:18:26,639  
data storage baby IQ and infectious

464  
00:18:24,190 --> 00:18:26,640  
clapping

465  
00:18:30,970 --> 00:18:37,250  
we may soon have petabytes size storage

466  
00:18:34,549 --> 00:18:42,019  
disks the equivalent of ten point six

467  
00:18:37,250 --> 00:18:44,210  
years of HDTV until now storage disks

468  
00:18:42,019 --> 00:18:46,609  
have been limited by how small the point

469  
00:18:44,210 --> 00:18:48,920  
of a light beam could be preventing

470  
00:18:46,609 --> 00:18:51,500  
disks from being written at a nanometer

471  
00:18:48,920 --> 00:18:53,170  
scale but now a new technique can

472  
00:18:51,500 --> 00:18:56,509  
produce a light spot that is one

473  
00:18:53,170 --> 00:18:58,670  
ten-thousandth of a human hair wide this

474  
00:18:56,509 --> 00:19:00,589  
technology allows more data to be

475  
00:18:58,670 --> 00:19:03,140  
written onto disks with incredible

476  
00:19:00,589 --> 00:19:07,069  
accuracy and could lead to huge amounts

477  
00:19:03,140 --> 00:19:08,780  
of storage on a single disk a new

478  
00:19:07,069 --> 00:19:12,019  
procedure may increase the safety of

479  
00:19:08,779 --> 00:19:13,730  
therapies using stem cells when stem

480  
00:19:12,019 --> 00:19:16,970  
cells are converted to other cell types

481  
00:19:13,730 --> 00:19:19,759  
for therapy some may take on a form that

482  
00:19:16,970 --> 00:19:22,309  
can produce tumors the new procedure

483  
00:19:19,759 --> 00:19:24,349  
identifies these aberrant cells and

484  
00:19:22,309 --> 00:19:27,200  
removes them using antibodies or

485

00:19:24,349 --> 00:19:28,969  
bacterial toxins application of this

486  
00:19:27,200 --> 00:19:31,640  
technique has been shown to prevent the

487  
00:19:28,970 --> 00:19:33,950  
development of tumors in mice you're

488  
00:19:31,640 --> 00:19:37,250  
listening to a week in science from our

489  
00:19:33,950 --> 00:19:39,890  
iOS and now for size headlines in 30

490  
00:19:37,250 --> 00:19:42,890  
seconds visual cues from your homeland

491  
00:19:39,890 --> 00:19:44,480  
such as faces or cultural images make it

492  
00:19:42,890 --> 00:19:47,210  
more difficult to speak a second

493  
00:19:44,480 --> 00:19:49,069  
language weight gain an increase in head

494  
00:19:47,210 --> 00:19:51,430  
size in the first month of life is

495  
00:19:49,069 --> 00:19:53,599  
linked to IQ at early school age

496  
00:19:51,430 --> 00:19:56,450  
pesticide levels which are considered to

497  
00:19:53,599 --> 00:19:58,669  
be environmentally safe still reduce

498  
00:19:56,450 --> 00:20:01,100  
aquatic invertebrates biodiversity by

499  
00:19:58,670 --> 00:20:03,019

thirty percent and a technique for

500

00:20:01,099 --> 00:20:04,929

producing high-quality holographic

501

00:20:03,019 --> 00:20:08,619

displays is a step towards

502

00:20:04,930 --> 00:20:10,970

three-dimensional TVs without glasses

503

00:20:08,619 --> 00:20:13,359

Swedish researchers have found that

504

00:20:10,970 --> 00:20:15,680

applause spreads like a disease

505

00:20:13,359 --> 00:20:18,139

individuals in an audience pick up the

506

00:20:15,680 --> 00:20:20,539

clapping infection by hearing the volume

507

00:20:18,140 --> 00:20:22,790

of applause rather than directly seeing

508

00:20:20,539 --> 00:20:24,889

their neighbors clapping the clapping

509

00:20:22,789 --> 00:20:26,629

infection will spread until at least one

510

00:20:24,890 --> 00:20:28,490

individual decides that they have

511

00:20:26,630 --> 00:20:30,620

clapped for long enough these

512

00:20:28,490 --> 00:20:32,690

characteristics of applause mean that

513

00:20:30,619 --> 00:20:35,089

there is no correlation between the

514  
00:20:32,690 --> 00:20:37,870  
duration of applause and the quality of

515  
00:20:35,089 --> 00:20:37,869  
the performance

516  
00:20:40,058 --> 00:20:44,658  
don't forget science behind the

517  
00:20:42,440 --> 00:20:47,210  
headlines this Tuesday where we'll be

518  
00:20:44,659 --> 00:20:49,490  
investigating personal genetic profiling

519  
00:20:47,210 --> 00:20:51,860  
will be live streaming the event so you

520  
00:20:49,490 --> 00:20:53,690  
can watch from wherever you may be or

521  
00:20:51,859 --> 00:20:57,589  
join us at the science exchange in

522  
00:20:53,690 --> 00:21:00,919  
Adelaide on jun 25 details at our iOS

523  
00:20:57,589 --> 00:21:03,230  
org dot a you that's been the highlights

524  
00:21:00,919 --> 00:21:05,419  
of another big week in science for more

525  
00:21:03,230 --> 00:21:09,620  
information and other science news check

526  
00:21:05,419 --> 00:21:12,799  
out the are isles website RI a u.s. dot

527  
00:21:09,619 --> 00:21:15,798  
org a you where you can also sign up for

528  
00:21:12,798 --> 00:21:17,690  
notifications of future episodes you can

529  
00:21:15,798 --> 00:21:21,528  
follow a week in science on twitter

530  
00:21:17,690 --> 00:21:24,019  
using the hashtag weekend sigh i'm paul

531  
00:21:21,528 --> 00:21:38,750  
willis and on behalf of the Arias team

532  
00:21:24,019 --> 00:21:41,629  
see you next week greetings skeptics

533  
00:21:38,750 --> 00:21:45,048  
them mrs. do you know what to do in

534  
00:21:41,630 --> 00:21:48,590  
August come to Stockholm Sweden and meet

535  
00:21:45,048 --> 00:21:52,730  
astronaut a special assignment activist

536  
00:21:48,589 --> 00:21:56,000  
hey Lee Stevens stats guru upon screams

537  
00:21:52,730 --> 00:21:59,240  
linsley undercover health journalist an

538  
00:21:56,000 --> 00:22:03,019  
abyssa p and many more at the 15th

539  
00:21:59,240 --> 00:22:05,720  
european skeptics Congress friday the

540  
00:22:03,019 --> 00:22:09,349  
twenty-third to sunday the 25th of

541  
00:22:05,720 --> 00:22:13,519  
august in stockholm sweden what a 15th

542

00:22:09,349 --> 00:22:16,509  
european skeptics carcass www wo

543  
00:22:13,519 --> 00:22:16,509  
skeptics club

544  
00:22:16,750 --> 00:22:23,710  
www euro skeptics gone dot org

545  
00:22:33,630 --> 00:22:38,640  
one of the hazards of being a skeptic

546  
00:22:35,940 --> 00:22:39,990  
about paranormal subjects is that those

547  
00:22:38,640 --> 00:22:42,240  
who have had their own personal

548  
00:22:39,990 --> 00:22:45,230  
experiences or investigated a peculiar

549  
00:22:42,240 --> 00:22:48,329  
case like to play stumped the skeptic oh

550  
00:22:45,230 --> 00:22:51,450  
you are a skeptic well I have a story

551  
00:22:48,329 --> 00:22:53,279  
for you and then I get an earful how do

552  
00:22:51,450 --> 00:22:55,500  
you explain that they conclude with

553  
00:22:53,279 --> 00:22:58,619  
added self satisfaction of a story well

554  
00:22:55,500 --> 00:23:01,920  
told I can't and I'm not going to try to

555  
00:22:58,619 --> 00:23:04,559  
explain it unless it's a well-researched

556  
00:23:01,920 --> 00:23:07,410

case which has published documentation I

557

00:23:04,559 --> 00:23:10,440

can't say anything about it it's just a

558

00:23:07,410 --> 00:23:13,019

story if I accept it every story I heard

559

00:23:10,440 --> 00:23:15,090

at face value every day I'd be broken in

560

00:23:13,019 --> 00:23:18,119

a mess of trouble I'm not accusing

561

00:23:15,089 --> 00:23:21,059

people of lying I'm saying I wasn't

562

00:23:18,119 --> 00:23:22,559

there it was not my experience so I'm

563

00:23:21,059 --> 00:23:25,259

not going to speculate about what you

564

00:23:22,559 --> 00:23:27,000

saw or what may have happened there is

565

00:23:25,259 --> 00:23:29,819

nothing to go on when cornered with

566

00:23:27,000 --> 00:23:32,609

these stories I can't fact check or

567

00:23:29,819 --> 00:23:34,829

confirm I can't pull an explanation out

568

00:23:32,609 --> 00:23:38,189

of a hat I have no place to go with them

569

00:23:34,829 --> 00:23:40,109

except to say interesting paranormal

570

00:23:38,190 --> 00:23:42,600

books are primarily these types of

571  
00:23:40,109 --> 00:23:44,459  
stories it's unusual for a case to be

572  
00:23:42,599 --> 00:23:46,469  
well investigated compared to the

573  
00:23:44,460 --> 00:23:48,150  
thousands of stories that are related

574  
00:23:46,470 --> 00:23:50,519  
from witnesses or references from other

575  
00:23:48,150 --> 00:23:53,070  
sources too many stories aren't

576  
00:23:50,519 --> 00:23:55,170  
referenced at all I was recently reading

577  
00:23:53,069 --> 00:23:57,659  
a book on local monsters and some

578  
00:23:55,170 --> 00:23:59,550  
accounts lacked accurate locations there

579  
00:23:57,660 --> 00:24:02,730  
was no town of that name or there were

580  
00:23:59,549 --> 00:24:04,409  
no details useless that is such poor

581  
00:24:02,730 --> 00:24:07,079  
quality evidence it might as well be

582  
00:24:04,410 --> 00:24:10,140  
discarded this is more likely wrong than

583  
00:24:07,079 --> 00:24:12,149  
helpful anecdotes do not necessarily

584  
00:24:10,140 --> 00:24:15,180  
garner strength in numbers not for

585  
00:24:12,150 --> 00:24:17,430  
paranormal subjects a pile of unreliable

586  
00:24:15,180 --> 00:24:20,279  
tales is no better than one unreliable

587  
00:24:17,430 --> 00:24:22,560  
tale it's all hollow when it comes to

588  
00:24:20,279 --> 00:24:25,200  
local ghost and monster tales the

589  
00:24:22,559 --> 00:24:27,569  
stories just exist and it is unclear

590  
00:24:25,200 --> 00:24:30,420  
where they originated such tales are

591  
00:24:27,569 --> 00:24:32,819  
great as local folklore a problem arises

592  
00:24:30,420 --> 00:24:35,610  
when these anecdotes are elevated to

593  
00:24:32,819 --> 00:24:37,289  
evidence there is an over-reliance on

594  
00:24:35,609 --> 00:24:40,469  
anecdotes in the paranormal community

595  
00:24:37,289 --> 00:24:43,710  
for hauntings cryptozoology and ufology

596  
00:24:40,470 --> 00:24:45,240  
as the basis of Investigation a case

597  
00:24:43,710 --> 00:24:47,490  
we'll start with an observation but if

598  
00:24:45,240 --> 00:24:50,250  
that is all that it is with no physical

599

00:24:47,490 --> 00:24:52,440  
evidence no verification and a cold

600  
00:24:50,250 --> 00:24:55,349  
trail left to follow there is nothing

601  
00:24:52,440 --> 00:24:57,870  
you can do with it but document it had

602  
00:24:55,349 --> 00:25:00,990  
your own experience cherish it as your

603  
00:24:57,869 --> 00:25:03,389  
own I just can't help you and it's a bit

604  
00:25:00,990 --> 00:25:05,460  
rude to put me on the spot you had the

605  
00:25:03,390 --> 00:25:07,770  
experience it's up to you to provide

606  
00:25:05,460 --> 00:25:13,190  
evidence to support it not for me to

607  
00:25:07,769 --> 00:25:13,190  
disprove your claim i'm sharon hill

608  
00:25:18,539 --> 00:25:23,379  
did you see that UFO sighting that made

609  
00:25:21,130 --> 00:25:25,090  
the news what did that latest study

610  
00:25:23,380 --> 00:25:27,520  
about alternative treatments really say

611  
00:25:25,089 --> 00:25:30,490  
is this photo making the rounds real or

612  
00:25:27,519 --> 00:25:32,349  
hoax doubtful news is a unique website

613  
00:25:30,490 --> 00:25:34,509

featuring news about pseudoscience the

614

00:25:32,349 --> 00:25:36,209

paranormal anomalies and questionable

615

00:25:34,509 --> 00:25:39,460

claims framed with the skeptical view

616

00:25:36,210 --> 00:25:41,920

come visit doleful newscast every day for

617

00:25:39,460 --> 00:25:45,069

news about cryptozoology conspiracies

618

00:25:41,920 --> 00:25:47,560

shams scams and more follow us on

619

00:25:45,069 --> 00:25:49,119

twitter at doubtful news critical

620

00:25:47,559 --> 00:25:51,399

thinking is essential in assessing

621

00:25:49,119 --> 00:25:55,229

today's news duffel news helps you

622

00:25:51,400 --> 00:25:55,230

decide can you really believe this stuff

623

00:25:58,170 --> 00:26:01,960

have you heard the one about how the

624

00:26:00,039 --> 00:26:03,490

illuminati in conjunction with the US

625

00:26:01,960 --> 00:26:05,380

government are hiding the existence of

626

00:26:03,490 --> 00:26:07,569

aliens in order to ensure the supply of

627

00:26:05,380 --> 00:26:09,010

helium is kept low although the CIA the

628  
00:26:07,569 --> 00:26:10,779  
militant wing of the Freemasons are

629  
00:26:09,009 --> 00:26:12,220  
working with the elders of zion to take

630  
00:26:10,779 --> 00:26:14,710  
control of the population of the world

631  
00:26:12,220 --> 00:26:16,509  
through fluoridated chemtrails canberra

632  
00:26:14,710 --> 00:26:17,980  
skeptics incorporated on behalf of the

633  
00:26:16,509 --> 00:26:19,690  
shadow government will be massing an

634  
00:26:17,980 --> 00:26:22,240  
array of dark forces for the australian

635  
00:26:19,690 --> 00:26:23,980  
skeptics national convention 2013 this

636  
00:26:22,240 --> 00:26:25,660  
convention has conspired to coincide

637  
00:26:23,980 --> 00:26:27,910  
with the 50th anniversary of the

638  
00:26:25,660 --> 00:26:29,590  
assassination of John F Kennedy possibly

639  
00:26:27,910 --> 00:26:31,630  
the most famous conspiracy theory of all

640  
00:26:29,589 --> 00:26:33,459  
time if you've ever wanted to learn

641  
00:26:31,630 --> 00:26:35,410  
about the truth behind the death of JFK

642  
00:26:33,460 --> 00:26:37,299  
what makes for a good conspiracy theory

643  
00:26:35,410 --> 00:26:39,310  
and why they are so prevalent Canberra

644  
00:26:37,299 --> 00:26:41,049  
skeptics invites you to attend that is

645  
00:26:39,309 --> 00:26:44,049  
of course should you choose to accept it

646  
00:26:41,049 --> 00:26:46,629  
come to national skeptics convention org

647  
00:26:44,049 --> 00:26:48,779  
and just remember they will be watching

648  
00:26:46,630 --> 00:26:48,780  
you

649  
00:26:50,940 --> 00:27:00,159  
now it's time for dr. Rachel reports

650  
00:26:54,308 --> 00:27:02,798  
with dr. Rachel Dunlop hello listeners

651  
00:27:00,159 --> 00:27:04,539  
and welcome to dr. Reggie reports well

652  
00:27:02,798 --> 00:27:07,509  
this week I'm talking to a real

653  
00:27:04,538 --> 00:27:09,669  
scientist actually dr. david hawks who

654  
00:27:07,509 --> 00:27:12,788  
is a medical virologist at the flory

655  
00:27:09,669 --> 00:27:14,919  
institute in melbourne australia has

656

00:27:12,788 --> 00:27:18,369  
just published a paper on the HPV

657  
00:27:14,919 --> 00:27:20,559  
vaccine with two colleagues of mine as

658  
00:27:18,369 --> 00:27:22,479  
well in fact who are from the stop the

659  
00:27:20,558 --> 00:27:24,668  
Australian vaccination network facebook

660  
00:27:22,480 --> 00:27:26,798  
page or s avian and I've got David on

661  
00:27:24,669 --> 00:27:30,159  
the line now from Melbourne hi David

662  
00:27:26,798 --> 00:27:34,028  
thanks for joining us I Rachel welcome

663  
00:27:30,159 --> 00:27:35,769  
to the skeptic zone podcast Thanks now

664  
00:27:34,028 --> 00:27:37,980  
I'm this paper that you've published

665  
00:27:35,769 --> 00:27:40,859  
this week it is in the journal

666  
00:27:37,980 --> 00:27:44,380  
infectious agents in cancer it's

667  
00:27:40,859 --> 00:27:48,129  
answering a human papilloma vaccine

668  
00:27:44,380 --> 00:27:50,528  
concerns a matter of science and time so

669  
00:27:48,130 --> 00:27:52,960  
um I will go into a little bit of what

670  
00:27:50,528 --> 00:27:54,700

you've covered in the paper in a moment

671

00:27:52,960 --> 00:27:57,250

it's a review paper of the evidence

672

00:27:54,700 --> 00:28:00,220

supporting that on the efficacy and a

673

00:27:57,250 --> 00:28:02,888

safety of HPV vaccine but just as way of

674

00:28:00,220 --> 00:28:06,130

a bit of background let's talk about how

675

00:28:02,888 --> 00:28:07,928

this came about because this paper came

676

00:28:06,130 --> 00:28:09,730

about because you saw someone else had

677

00:28:07,929 --> 00:28:12,250

published something about HPV when she

678

00:28:09,730 --> 00:28:13,750

thought was wrong is that right yeah

679

00:28:12,250 --> 00:28:15,579

what happens it was actually in the same

680

00:28:13,750 --> 00:28:17,169

journal in the beginning of february

681

00:28:15,579 --> 00:28:21,329

there was a letter to the editor of

682

00:28:17,169 --> 00:28:24,549

written by some well-known anti-vaccine

683

00:28:21,329 --> 00:28:27,939

and i'll use the term loosely scientists

684

00:28:24,548 --> 00:28:29,349

and essentially it was it was a letter

685  
00:28:27,940 --> 00:28:30,880  
to the editor and i think the thing that

686  
00:28:29,349 --> 00:28:33,129  
sort of triggered it was it it was a

687  
00:28:30,880 --> 00:28:35,590  
journal that has an open review process

688  
00:28:33,130 --> 00:28:36,789  
so you can see the reviewers comments

689  
00:28:35,589 --> 00:28:39,428  
and things like that so I looked it up

690  
00:28:36,788 --> 00:28:42,548  
and I realized with about 15 minutes

691  
00:28:39,429 --> 00:28:44,679  
research that the article itself was

692  
00:28:42,548 --> 00:28:46,089  
just a bunch of you know recycled

693  
00:28:44,679 --> 00:28:48,880  
vaccine questions that have been

694  
00:28:46,089 --> 00:28:51,189  
answered but the one of the reviewers

695  
00:28:48,880 --> 00:28:53,500  
had nautical with one of the well with

696  
00:28:51,190 --> 00:28:55,480  
two of the the authors of this article

697  
00:28:53,500 --> 00:28:57,579  
three months beforehand and worked in

698  
00:28:55,480 --> 00:29:00,429  
the same Institute and in his comments

699  
00:28:57,579 --> 00:29:03,388  
he wrote awesome article fantastic I

700  
00:29:00,429 --> 00:29:07,048  
have no conflict of interest and that

701  
00:29:03,388 --> 00:29:09,898  
so it was yeah so that's what triggered

702  
00:29:07,048 --> 00:29:12,118  
a conversation with one of the editors

703  
00:29:09,898 --> 00:29:14,098  
in chief with the with the journal and

704  
00:29:12,118 --> 00:29:17,009  
originally we were going to put in a

705  
00:29:14,098 --> 00:29:19,588  
letter to the editor sort of sort of you

706  
00:29:17,009 --> 00:29:22,200  
know address these concerns and through

707  
00:29:19,588 --> 00:29:24,868  
a bunch of different reasons which I'm

708  
00:29:22,200 --> 00:29:28,109  
sort of in light of what's happened in

709  
00:29:24,868 --> 00:29:29,939  
the last week I think I wasn't quite as

710  
00:29:28,108 --> 00:29:31,588  
smart as I thought I was we managed to

711  
00:29:29,940 --> 00:29:33,749  
getting upgraded from a letter to the

712  
00:29:31,588 --> 00:29:36,298  
editor to an actual full review article

713

00:29:33,749 --> 00:29:37,649  
yeah and tell me about the rat bags

714  
00:29:36,298 --> 00:29:40,019  
you've got on the paper with you because

715  
00:29:37,648 --> 00:29:41,578  
I happen to know them as well and you

716  
00:29:40,019 --> 00:29:44,848  
met them through social media is that

717  
00:29:41,578 --> 00:29:47,219  
correct yes I I've been a member of the

718  
00:29:44,848 --> 00:29:50,608  
well active on the stop the avian

719  
00:29:47,219 --> 00:29:53,219  
website since about 2009 and I went to I

720  
00:29:50,608 --> 00:29:57,509  
met up with them one of my co-authors

721  
00:29:53,219 --> 00:29:59,849  
Candace at a function beginning of last

722  
00:29:57,509 --> 00:30:01,229  
year we sort of hit it off and there was

723  
00:29:59,848 --> 00:30:02,638  
always this discussion about i will

724  
00:30:01,229 --> 00:30:04,588  
write a paper together sometime an

725  
00:30:02,638 --> 00:30:07,638  
epidemiologist neurologist they can't be

726  
00:30:04,588 --> 00:30:10,108  
that many of them around and then we

727  
00:30:07,638 --> 00:30:13,468

there was a guy called matt Berryman who

728

00:30:10,108 --> 00:30:15,628

is a data model in wollongong and in his

729

00:30:13,469 --> 00:30:17,278

past life is actually co authored an

730

00:30:15,628 --> 00:30:19,048

article on cancer so I was sort of

731

00:30:17,278 --> 00:30:20,548

you've got a virologist an

732

00:30:19,048 --> 00:30:22,499

epidemiologist in someone with a

733

00:30:20,548 --> 00:30:24,628

background in cancer so it just seemed

734

00:30:22,499 --> 00:30:26,190

like a really novel way to actually

735

00:30:24,628 --> 00:30:27,808

write an article and I guess that's the

736

00:30:26,190 --> 00:30:30,119

thing as I'm oh and early career

737

00:30:27,808 --> 00:30:31,709

researcher so it's a really competitive

738

00:30:30,118 --> 00:30:34,558

environment so if you can actually form

739

00:30:31,709 --> 00:30:35,879

collaborations with people through sort

740

00:30:34,558 --> 00:30:37,798

of social media we've got a shared

741

00:30:35,878 --> 00:30:39,598

interest this is sort of from an

742  
00:30:37,798 --> 00:30:41,638  
academic point of view it's really

743  
00:30:39,598 --> 00:30:44,009  
fascinating you know it's come out with

744  
00:30:41,638 --> 00:30:45,898  
what I think is a paper that we're quite

745  
00:30:44,009 --> 00:30:47,548  
proud of yeah I mean that the sort of

746  
00:30:45,898 --> 00:30:49,138  
serendipitous nature of the way this

747  
00:30:47,548 --> 00:30:51,358  
collaboration happened i think is really

748  
00:30:49,138 --> 00:30:52,858  
interesting and i guess it started

749  
00:30:51,358 --> 00:30:54,989  
because an anti-rattle said something

750  
00:30:52,858 --> 00:30:57,328  
wrong on the internet essentially and

751  
00:30:54,989 --> 00:30:58,588  
you guys decided to get together and do

752  
00:30:57,328 --> 00:31:00,598  
something about it and i think that

753  
00:30:58,588 --> 00:31:02,759  
you're right and this is a way that you

754  
00:31:00,598 --> 00:31:04,769  
know when you have academics that you

755  
00:31:02,759 --> 00:31:06,328  
work with say what's the use of Twitter

756  
00:31:04,769 --> 00:31:07,979  
or not to use of Facebook well this is a

757  
00:31:06,328 --> 00:31:09,898  
very good example of that isn't it

758  
00:31:07,979 --> 00:31:14,278  
absolutely and I mean the thing is you a

759  
00:31:09,898 --> 00:31:16,129  
lot of a lot I say much the stuff antav

760  
00:31:14,278 --> 00:31:17,869  
actors say is either wrong what

761  
00:31:16,130 --> 00:31:21,110  
he picked and the rest of it they don't

762  
00:31:17,869 --> 00:31:22,489  
actually say but it's it's never the

763  
00:31:21,109 --> 00:31:24,559  
conversations with the editor-in-chief

764  
00:31:22,490 --> 00:31:26,930  
are quite interesting because his take

765  
00:31:24,559 --> 00:31:29,179  
on was that is Italian and he says that

766  
00:31:26,930 --> 00:31:31,220  
a lot of the GPS he interacts with are a

767  
00:31:29,180 --> 00:31:33,019  
bit worried about the vaccine because in

768  
00:31:31,220 --> 00:31:36,079  
Australia was accepted really readily

769  
00:31:33,019 --> 00:31:37,759  
and it was an invention and so was never

770

00:31:36,079 --> 00:31:38,929  
an issue but I mean I've spoken to

771  
00:31:37,759 --> 00:31:41,119  
people from Europe and there was always

772  
00:31:38,930 --> 00:31:43,640  
this all it's a bit new let's give it a

773  
00:31:41,119 --> 00:31:46,039  
few you know we're not exactly sure and

774  
00:31:43,640 --> 00:31:47,300  
people ask these questions would you

775  
00:31:46,039 --> 00:31:49,369  
know I've got in the paper and it was

776  
00:31:47,299 --> 00:31:50,930  
about let's write this article let's

777  
00:31:49,369 --> 00:31:53,509  
write it for an informed audience so

778  
00:31:50,930 --> 00:31:54,950  
it's not just purely a virology point of

779  
00:31:53,509 --> 00:31:58,009  
view and epidemiology is putting

780  
00:31:54,950 --> 00:32:00,529  
together in a format that we can give to

781  
00:31:58,009 --> 00:32:03,859  
a GP or someone with a bit of an

782  
00:32:00,529 --> 00:32:06,500  
informed view of the topic vaccine take

783  
00:32:03,859 --> 00:32:08,329  
TV cancel whichever way you want to go

784  
00:32:06,500 --> 00:32:09,799

with it and then they can kind of go

785

00:32:08,329 --> 00:32:11,779

when someone asked them a question they

786

00:32:09,799 --> 00:32:13,759

can look at it and go more there's the

787

00:32:11,779 --> 00:32:15,289

answer they don't have to go and crawl

788

00:32:13,759 --> 00:32:17,119

through you know an academic review

789

00:32:15,289 --> 00:32:18,740

which probably looks at maybe a certain

790

00:32:17,119 --> 00:32:21,109

angle of it rather than sort of

791

00:32:18,740 --> 00:32:22,700

answering the questions that GPS in the

792

00:32:21,109 --> 00:32:24,699

general public are actually doing yeah

793

00:32:22,700 --> 00:32:26,840

so just on that issue then of

794

00:32:24,700 --> 00:32:28,370

anti-vaxxers and HPV what are some of

795

00:32:26,839 --> 00:32:30,379

the things that they have said about the

796

00:32:28,369 --> 00:32:33,109

HPV vaccine that's been as you say

797

00:32:30,380 --> 00:32:34,930

incorrect or wrong most that's the stuff

798

00:32:33,109 --> 00:32:38,509

they said is being correct or wrong but

799

00:32:34,930 --> 00:32:40,250

can you be specific yeah there's this

800

00:32:38,509 --> 00:32:42,200

sort of a couple of areas the first is

801

00:32:40,250 --> 00:32:43,519

there's a lot of fuss about how it got

802

00:32:42,200 --> 00:32:45,200

approved and things like that and to be

803

00:32:43,519 --> 00:32:47,480

honest with you I'm a scientist I don't

804

00:32:45,200 --> 00:32:49,340

you know if I start getting worried

805

00:32:47,480 --> 00:32:51,319

about how certain things are pushed

806

00:32:49,339 --> 00:32:53,209

through laws and regulations it's it's

807

00:32:51,319 --> 00:32:54,859

just confusing what I wanted to look at

808

00:32:53,210 --> 00:32:56,900

was the actual science so that and the

809

00:32:54,859 --> 00:32:59,089

questions generally are to do with the

810

00:32:56,900 --> 00:33:00,500

adverse events there's been heaps of

811

00:32:59,089 --> 00:33:01,970

stuff that and I think because it's the

812

00:33:00,500 --> 00:33:03,380

sexually transmitted disease in a

813  
00:33:01,970 --> 00:33:05,600  
sexually transmitted disease with a

814  
00:33:03,380 --> 00:33:07,550  
vaccine you give to 12 and 13 year old

815  
00:33:05,599 --> 00:33:09,889  
girls it's sort of hit into that sort of

816  
00:33:07,549 --> 00:33:11,450  
Christian Right fundamentalist that you

817  
00:33:09,890 --> 00:33:13,520  
know occurs in the States and that was

818  
00:33:11,450 --> 00:33:16,130  
probably exacerbated by a number of

819  
00:33:13,519 --> 00:33:18,019  
states making it compulsory so the

820  
00:33:16,130 --> 00:33:20,210  
questions are generally are you know it

821  
00:33:18,019 --> 00:33:21,859  
causes ms it kills people it's the big

822  
00:33:20,210 --> 00:33:24,259  
one it kills people it's got all these

823  
00:33:21,859 --> 00:33:26,509  
bad adverse effects and I came across

824  
00:33:24,259 --> 00:33:29,960  
some fantastic really interesting data

825  
00:33:26,509 --> 00:33:32,658  
like in Australia we when we first had

826  
00:33:29,960 --> 00:33:35,298  
the the HPV vaccine we've had reports of

827

00:33:32,659 --> 00:33:37,730  
I think in the first year about 750

828  
00:33:35,298 --> 00:33:40,009  
adverse reactions in the first couple of

829  
00:33:37,730 --> 00:33:41,929  
years they gave 1.9 million girls the

830  
00:33:40,009 --> 00:33:45,470  
dough so it's it's not that high the

831  
00:33:41,929 --> 00:33:47,600  
next year it was about 450 yeah probably

832  
00:33:45,470 --> 00:33:49,130  
a similar amount of people but what I

833  
00:33:47,599 --> 00:33:51,048  
found even more interesting was in

834  
00:33:49,130 --> 00:33:54,470  
Australia I think so if I get the

835  
00:33:51,048 --> 00:33:56,839  
numbers right it's about 23 adverse

836  
00:33:54,470 --> 00:34:00,259  
reactions 400,000 people death of Jack

837  
00:33:56,839 --> 00:34:04,308  
seen in the US it's about 56 it's

838  
00:34:00,259 --> 00:34:06,589  
exactly the same vaccine we're pretty

839  
00:34:04,308 --> 00:34:09,679  
homogeneous there's no sort of racial or

840  
00:34:06,589 --> 00:34:11,628  
genetic bias as purely on how people

841  
00:34:09,679 --> 00:34:13,909

interpret or people will look for

842

00:34:11,628 --> 00:34:16,190

something to blame on the vaccine like

843

00:34:13,909 --> 00:34:19,849

there was a paper that looked at death's

844

00:34:16,190 --> 00:34:22,460

then there was 32 deaths reported and

845

00:34:19,849 --> 00:34:25,519

they found that 12 of them they couldn't

846

00:34:22,460 --> 00:34:27,440

find a person or a death so the the

847

00:34:25,519 --> 00:34:28,699

system in the US the Bears is open to

848

00:34:27,440 --> 00:34:30,858

anyone anyone could write something down

849

00:34:28,699 --> 00:34:32,269

this you can have a lot of fun and

850

00:34:30,858 --> 00:34:34,069

create some quite humorous adverse

851

00:34:32,269 --> 00:34:36,829

events if you're that way inclined but

852

00:34:34,070 --> 00:34:38,409

it also doesn't filter and then they say

853

00:34:36,829 --> 00:34:41,539

quite blatantly that this is just

854

00:34:38,409 --> 00:34:42,889

mass-produced you know reporting and

855

00:34:41,539 --> 00:34:45,500

it's not really that useful with an

856  
00:34:42,889 --> 00:34:46,970  
investigation so back to these deaths

857  
00:34:45,500 --> 00:34:50,000  
the guys investigated and they found

858  
00:34:46,969 --> 00:34:52,699  
that it was up to only twenty they could

859  
00:34:50,000 --> 00:34:55,099  
locate and of the twenty one of them was

860  
00:34:52,699 --> 00:34:56,628  
like a prescription drug overdose there

861  
00:34:55,099 --> 00:34:59,088  
was no cluster I think there were six

862  
00:34:56,628 --> 00:35:00,739  
would do to cardiovascular events and so

863  
00:34:59,088 --> 00:35:02,659  
there was no slip of causation all and

864  
00:35:00,739 --> 00:35:05,809  
they did the stats and was no different

865  
00:35:02,659 --> 00:35:08,838  
than the unvaccinated population but the

866  
00:35:05,809 --> 00:35:11,119  
other thing they noticed was the I think

867  
00:35:08,838 --> 00:35:12,969  
the average time I'm hoping I'm get the

868  
00:35:11,119 --> 00:35:15,680  
numbers right the average time from

869  
00:35:12,969 --> 00:35:17,659  
vaccination to when the first symptom

870  
00:35:15,679 --> 00:35:20,750  
appear that led to this death was about

871  
00:35:17,659 --> 00:35:22,670  
five months right so you get the vaccine

872  
00:35:20,750 --> 00:35:26,000  
on January the first and sometime in

873  
00:35:22,670 --> 00:35:29,119  
late May you you feel a bit wonky so

874  
00:35:26,000 --> 00:35:31,338  
it's it's just people with looking for

875  
00:35:29,119 --> 00:35:34,670  
something to blame and this vaccine was

876  
00:35:31,338 --> 00:35:36,559  
new it was contentious was in the news

877  
00:35:34,670 --> 00:35:39,740  
in this is where I think a lot of these

878  
00:35:36,559 --> 00:35:41,779  
these myths and and have come from a

879  
00:35:39,739 --> 00:35:42,169  
number of organizations make a hell of a

880  
00:35:41,780 --> 00:35:45,470  
lot of

881  
00:35:42,170 --> 00:35:46,849  
the from scare tactics I've sort of

882  
00:35:45,469 --> 00:35:48,828  
found myself in the position through

883  
00:35:46,849 --> 00:35:51,318  
there and I'm sure you have as well as

884

00:35:48,829 --> 00:35:53,750  
that I'm a I'm a molecular scientist I

885  
00:35:51,318 --> 00:35:56,058  
spent five years in a the the second

886  
00:35:53,750 --> 00:35:58,010  
highest level of biological containment

887  
00:35:56,059 --> 00:36:00,230  
working with HIV and I didn't really

888  
00:35:58,010 --> 00:36:02,270  
speak to a lot of people so when

889  
00:36:00,230 --> 00:36:03,740  
actually went out and started and it was

890  
00:36:02,269 --> 00:36:05,838  
a sort of when I was finishing that in

891  
00:36:03,739 --> 00:36:07,848  
transitioning into neuroscience that I I

892  
00:36:05,838 --> 00:36:11,900  
sort of started talking to people about

893  
00:36:07,849 --> 00:36:14,269  
stuff and realizing that people it's

894  
00:36:11,900 --> 00:36:16,039  
this confusion I think Bengal they could

895  
00:36:14,269 --> 00:36:17,599  
put it great that the Daily Mail in the

896  
00:36:16,039 --> 00:36:18,949  
UK is dividing the world into things

897  
00:36:17,599 --> 00:36:20,359  
that cause cancer and things of cure

898  
00:36:18,949 --> 00:36:22,368

cancer and that's how a lot of people

899

00:36:20,358 --> 00:36:25,159

view it they sort of Carol a clinical

900

00:36:22,369 --> 00:36:27,710

trials Jonas this then that that size

901

00:36:25,159 --> 00:36:30,199

that in scientists is evidence at

902

00:36:27,710 --> 00:36:32,119

edifice and I think that trying to

903

00:36:30,199 --> 00:36:34,279

explain to people what these these

904

00:36:32,119 --> 00:36:35,900

results actually mean in terms of if you

905

00:36:34,280 --> 00:36:37,880

have a vaccine in you have a car

906

00:36:35,900 --> 00:36:40,068

accident on the way home would you

907

00:36:37,880 --> 00:36:42,980

consider that a vaccine event and they

908

00:36:40,068 --> 00:36:45,529

go Noah said but according to all the

909

00:36:42,980 --> 00:36:48,048

way that you put data in you would and

910

00:36:45,530 --> 00:36:49,730

that's how I sort of try and explain you

911

00:36:48,048 --> 00:36:52,449

know the the correlation versus the

912

00:36:49,730 --> 00:36:56,030

causation which is sort of a very off

913  
00:36:52,449 --> 00:36:57,169  
cited phrase tokenized ask you something

914  
00:36:56,030 --> 00:36:59,780  
as a crackle going on in the background

915  
00:36:57,170 --> 00:37:02,450  
are you playing the panel something now

916  
00:36:59,780 --> 00:37:04,040  
I have a eight month old English

917  
00:37:02,449 --> 00:37:09,259  
Springer Spaniel that won't leave me

918  
00:37:04,039 --> 00:37:10,579  
alone so he's chewing on a tennis ball

919  
00:37:09,260 --> 00:37:12,589  
and hopefully that will keep him out the

920  
00:37:10,579 --> 00:37:14,750  
way but I do apologize i'm home alone

921  
00:37:12,588 --> 00:37:16,699  
and he he doesn't like being locked out

922  
00:37:14,750 --> 00:37:18,619  
of the mine oh okay no that's fine i

923  
00:37:16,699 --> 00:37:23,358  
could just hear some funny noise but not

924  
00:37:18,619 --> 00:37:24,858  
know what okay so with respect to the

925  
00:37:23,358 --> 00:37:26,179  
four questions you've addressed in the

926  
00:37:24,858 --> 00:37:28,759  
paper the first one you've looked at is

927  
00:37:26,179 --> 00:37:31,129  
does vaccination against HPV prevent

928  
00:37:28,760 --> 00:37:32,599  
infection with the virus tell us what

929  
00:37:31,130 --> 00:37:34,250  
you found out about that well yeah I

930  
00:37:32,599 --> 00:37:36,109  
mean one of the reasons I actually

931  
00:37:34,250 --> 00:37:38,449  
phrase that is because people talk about

932  
00:37:36,108 --> 00:37:41,000  
our vaccines prevent death and vaccines

933  
00:37:38,449 --> 00:37:43,879  
prevent cancerous like vaccines prevent

934  
00:37:41,000 --> 00:37:45,380  
the diseases they target and we found

935  
00:37:43,880 --> 00:37:47,390  
that you know when we looked at all the

936  
00:37:45,380 --> 00:37:50,358  
data and there's been seven clinical

937  
00:37:47,389 --> 00:37:52,219  
trials tackling 45 involving 44,000

938  
00:37:50,358 --> 00:37:54,078  
women that when you give the vaccine to

939  
00:37:52,219 --> 00:37:55,509  
people that are naive those that haven't

940  
00:37:54,079 --> 00:37:58,240  
been exposed to HPV

941

00:37:55,510 --> 00:38:01,450  
you get a greater than ninety percent

942  
00:37:58,239 --> 00:38:02,859  
reduction in infection and that's that

943  
00:38:01,449 --> 00:38:04,509  
includes people that maybe didn't get

944  
00:38:02,860 --> 00:38:06,309  
all three doses they got at least one

945  
00:38:04,510 --> 00:38:08,680  
dose but they didn't get all three doses

946  
00:38:06,309 --> 00:38:10,150  
and they didn't have HPV so it's

947  
00:38:08,679 --> 00:38:11,319  
probably the most accurate model of

948  
00:38:10,150 --> 00:38:13,289  
what's actually going to happen in

949  
00:38:11,320 --> 00:38:16,510  
reality with 12 13 year old kids

950  
00:38:13,289 --> 00:38:18,009  
probably not going to have HPV a bunch

951  
00:38:16,510 --> 00:38:20,590  
of them are probably going to miss one

952  
00:38:18,010 --> 00:38:23,020  
of the injections or not follow up so

953  
00:38:20,590 --> 00:38:26,380  
with respect to that for example there

954  
00:38:23,019 --> 00:38:28,630  
was a researcher rather a PhD student at

955  
00:38:26,380 --> 00:38:31,030

the University of Wollongong his name is

956

00:38:28,630 --> 00:38:33,160

Judy Wiley man who insists that because

957

00:38:31,030 --> 00:38:35,080

this particular vaccine only prevents

958

00:38:33,159 --> 00:38:37,449

about seventy percent of the viruses

959

00:38:35,079 --> 00:38:40,449

that cause HPV therefore it's useless

960

00:38:37,449 --> 00:38:42,609

how do you explain that that is wrong if

961

00:38:40,449 --> 00:38:44,079

you just follow and I'll talk about this

962

00:38:42,610 --> 00:38:46,120

load but if you just say that it only

963

00:38:44,079 --> 00:38:49,389

targets the two strains which cause

964

00:38:46,119 --> 00:38:51,279

cervical cancer 16 and eight any only

965

00:38:49,389 --> 00:38:53,109

look at cervical cancer it will prevent

966

00:38:51,280 --> 00:38:56,560

probably around seventy percent of

967

00:38:53,110 --> 00:38:58,150

deaths there's over 200 cervical cancer

968

00:38:56,559 --> 00:39:01,090

deaths in Australia each year so that's

969

00:38:58,150 --> 00:39:03,070

about 150 women's lives are saved but

970  
00:39:01,090 --> 00:39:04,480  
then you look at it out instead of you

971  
00:39:03,070 --> 00:39:06,640  
know you've got that too and a hundred

972  
00:39:04,480 --> 00:39:08,920  
thousand women between 20 and 69

973  
00:39:06,639 --> 00:39:11,409  
developed cervical can die of cervical

974  
00:39:08,920 --> 00:39:13,300  
cancer but it's about eight or nine out

975  
00:39:11,409 --> 00:39:15,399  
of a hundred thousand developed cervical

976  
00:39:13,300 --> 00:39:19,330  
cancer and on top of that then you've

977  
00:39:15,400 --> 00:39:21,369  
got that's 72 out of 100,000 developed

978  
00:39:19,329 --> 00:39:25,059  
sort of these cervical intraepithelial

979  
00:39:21,369 --> 00:39:26,889  
neoplasia type 3 which are the sort of

980  
00:39:25,059 --> 00:39:28,299  
the pre cancer markers that you know get

981  
00:39:26,889 --> 00:39:30,909  
picked up on a pap smear and have to be

982  
00:39:28,300 --> 00:39:32,860  
burnt off and can often cause problems

983  
00:39:30,909 --> 00:39:34,719  
with cervix in terms of women who want

984  
00:39:32,860 --> 00:39:38,260  
to have children and then there's this

985  
00:39:34,719 --> 00:39:40,899  
steamroller effect so yeah I I think off

986  
00:39:38,260 --> 00:39:42,940  
the top of my head saving 150 women each

987  
00:39:40,900 --> 00:39:44,349  
year is worth it but if you actually

988  
00:39:42,940 --> 00:39:46,360  
look at it in terms of the knockdown

989  
00:39:44,349 --> 00:39:48,880  
effect these are just the deaths you've

990  
00:39:46,360 --> 00:39:50,920  
got four and a half times that many

991  
00:39:48,880 --> 00:39:54,280  
people who actually get cancer and then

992  
00:39:50,920 --> 00:39:58,000  
eight times as many gets skin three and

993  
00:39:54,280 --> 00:40:01,120  
then 20 times as many get skin 2 which is

994  
00:39:58,000 --> 00:40:03,280  
the the categories of the precancerous

995  
00:40:01,119 --> 00:40:05,139  
lesion so I think that you could

996  
00:40:03,280 --> 00:40:07,390  
probably make a really strong financial

997  
00:40:05,139 --> 00:40:08,889  
case that is just working there but the

998

00:40:07,389 --> 00:40:11,319  
other thing is I'm a medical

999  
00:40:08,889 --> 00:40:12,940  
search I kind of don't like keeping up

1000  
00:40:11,320 --> 00:40:15,580  
on anything and this seems like a pretty

1001  
00:40:12,940 --> 00:40:17,050  
easy cheers mmm so one of the other

1002  
00:40:15,579 --> 00:40:18,789  
things you discussed in your review was

1003  
00:40:17,050 --> 00:40:21,519  
whether this vaccination will cause a

1004  
00:40:18,789 --> 00:40:24,039  
compensatory rise in other non vaccine

1005  
00:40:21,519 --> 00:40:26,500  
HPV types what's the evidence out there

1006  
00:40:24,039 --> 00:40:28,809  
to suggest that won't be the case I

1007  
00:40:26,500 --> 00:40:30,820  
spent my life working on HIV for five

1008  
00:40:28,809 --> 00:40:32,799  
years and you certainly see different

1009  
00:40:30,820 --> 00:40:34,630  
sentencing drug you know when you add a

1010  
00:40:32,800 --> 00:40:36,070  
drug you get different strains of HIV

1011  
00:40:34,630 --> 00:40:37,180  
coming up and so this was something I

1012  
00:40:36,070 --> 00:40:39,580

thought was really interesting to

1013

00:40:37,179 --> 00:40:42,699

investigate so there's about 15 strains

1014

00:40:39,579 --> 00:40:44,980

it's over 100 types of HIV HPV sorry

1015

00:40:42,699 --> 00:40:47,319

there's about 15 that cause cancer the

1016

00:40:44,980 --> 00:40:49,449

all the vaccines target the two most

1017

00:40:47,320 --> 00:40:51,820

common causes of cervical cancer 16 and

1018

00:40:49,449 --> 00:40:53,679

18 but then if you actually look at the

1019

00:40:51,820 --> 00:40:56,080

vaccines they actually significantly

1020

00:40:53,679 --> 00:40:58,659

reduce infection with a further five of

1021

00:40:56,079 --> 00:41:01,539

these cancer-causing and the severity

1022

00:40:58,659 --> 00:41:04,539

that only targets to cancer strains

1023

00:41:01,539 --> 00:41:06,849

actually gets a further two so all of

1024

00:41:04,539 --> 00:41:08,860

both vaccines tied at seven strains and

1025

00:41:06,849 --> 00:41:11,199

reduce them so that's half the cancer

1026

00:41:08,860 --> 00:41:13,720

one is reduced and then one of them can

1027  
00:41:11,199 --> 00:41:15,759  
target an extra two and that means okay

1028  
00:41:13,719 --> 00:41:17,739  
they reduce those but to those other

1029  
00:41:15,760 --> 00:41:19,260  
nine go up and there's nothing that

1030  
00:41:17,739 --> 00:41:21,189  
shows that they go up there's no

1031  
00:41:19,260 --> 00:41:23,200  
significant difference in the rate of

1032  
00:41:21,190 --> 00:41:25,329  
infection of any of the other

1033  
00:41:23,199 --> 00:41:27,519  
cancer-causing strains so it not only

1034  
00:41:25,329 --> 00:41:29,500  
none of them go up to compensate for

1035  
00:41:27,519 --> 00:41:32,469  
this sort of gap with the 16 and 18

1036  
00:41:29,500 --> 00:41:33,760  
caused infections but the half of them

1037  
00:41:32,469 --> 00:41:35,369  
actually go down because they're close

1038  
00:41:33,760 --> 00:41:38,020  
enough related that the vaccine works

1039  
00:41:35,369 --> 00:41:40,029  
recently efficiently on them as well Wow

1040  
00:41:38,019 --> 00:41:43,929  
so are you saying that vaccines work

1041  
00:41:40,030 --> 00:41:45,670  
Dave yeah who woulda thunk ER did you

1042  
00:41:43,929 --> 00:41:48,549  
know hundred use a science and I think

1043  
00:41:45,670 --> 00:41:51,849  
was that there was over 200 human

1044  
00:41:48,550 --> 00:41:53,830  
clinical trials since on the HPV vaccine

1045  
00:41:51,849 --> 00:41:56,230  
and it's been registered for I think

1046  
00:41:53,829 --> 00:41:58,329  
seven years so that people are still

1047  
00:41:56,230 --> 00:42:00,519  
looking at things but the evidence seems

1048  
00:41:58,329 --> 00:42:02,679  
pretty strong for this one and most of

1049  
00:42:00,519 --> 00:42:04,119  
the other ones as well so um can you

1050  
00:42:02,679 --> 00:42:06,129  
explain to our listeners and why is it

1051  
00:42:04,119 --> 00:42:07,839  
being given to males because some people

1052  
00:42:06,130 --> 00:42:09,910  
don't seem to understand is that it's

1053  
00:42:07,840 --> 00:42:13,030  
not you don't just have to have a cervix

1054  
00:42:09,909 --> 00:42:15,159  
to get this vaccine do you know I this

1055

00:42:13,030 --> 00:42:18,940  
to Bree since the first is that you know

1056  
00:42:15,159 --> 00:42:22,239  
women contract HPV generally from men

1057  
00:42:18,940 --> 00:42:23,889  
because most women have

1058  
00:42:22,239 --> 00:42:25,959  
sex with men you know men can be this

1059  
00:42:23,889 --> 00:42:28,449  
reservoir of HPV so if you stop them

1060  
00:42:25,960 --> 00:42:30,449  
getting it then women can't get it and

1061  
00:42:28,449 --> 00:42:32,769  
that in itself is a pretty good reason

1062  
00:42:30,449 --> 00:42:35,859  
it's sort of you know becoming a bit of

1063  
00:42:32,769 --> 00:42:38,469  
sort of sexual herd immunity hmm but the

1064  
00:42:35,860 --> 00:42:39,970  
other the other reason is that HPV is

1065  
00:42:38,469 --> 00:42:42,399  
certainly linked with ninety nine point

1066  
00:42:39,969 --> 00:42:43,839  
seven percent of cervical cancers what

1067  
00:42:42,400 --> 00:42:46,030  
most people don't know is that it's

1068  
00:42:43,840 --> 00:42:47,800  
linked to ninety percent of anal cancers

1069  
00:42:46,030 --> 00:42:50,619

I think it's forty percent of penis

1070

00:42:47,800 --> 00:42:54,100  
cancers and my disguise have both of

1071

00:42:50,619 --> 00:42:56,940  
those things and pretty much they're not

1072

00:42:54,099 --> 00:42:59,289  
places you really want to get cancer

1073

00:42:56,940 --> 00:43:01,019  
you've also got twelve percent of auto

1074

00:42:59,289 --> 00:43:03,250  
larynx so that's sort of the throat

1075

00:43:01,019 --> 00:43:04,809  
cancers are linked to HIV and three

1076

00:43:03,250 --> 00:43:08,500  
percent of mouth cancer so you've got

1077

00:43:04,809 --> 00:43:11,289  
these cancers that you know certainly

1078

00:43:08,500 --> 00:43:14,829  
affect men and their 40 and ninety

1079

00:43:11,289 --> 00:43:17,199  
percent is a really significant number

1080

00:43:14,829 --> 00:43:19,210  
that you know you could reduce with with

1081

00:43:17,199 --> 00:43:20,469  
a vaccine Wow so just finally the last

1082

00:43:19,210 --> 00:43:23,289  
thing you looked at obviously was the

1083

00:43:20,469 --> 00:43:25,089  
safety profile of HPV and in asking you

1084  
00:43:23,289 --> 00:43:26,829  
that question can you can you approach

1085  
00:43:25,090 --> 00:43:29,619  
that from the perspective of explaining

1086  
00:43:26,829 --> 00:43:31,630  
to us why Japan has pulled HPV yeah

1087  
00:43:29,619 --> 00:43:33,100  
Japan hasn't actually pulled the back

1088  
00:43:31,630 --> 00:43:34,809  
seen what they've actually done is said

1089  
00:43:33,099 --> 00:43:36,099  
the government's going to stop giving it

1090  
00:43:34,809 --> 00:43:37,449  
it's not it's still going to be

1091  
00:43:36,099 --> 00:43:38,739  
available if you go into your doctoring

1092  
00:43:37,449 --> 00:43:39,849  
you want you can go and get it but

1093  
00:43:38,739 --> 00:43:41,289  
they're just stopping their program

1094  
00:43:39,849 --> 00:43:44,799  
whether they're actually causing it

1095  
00:43:41,289 --> 00:43:47,139  
because it had a variety of essentially

1096  
00:43:44,800 --> 00:43:48,940  
these adverse reactions and from what

1097  
00:43:47,139 --> 00:43:50,379  
I've read now I've not had a chance the

1098  
00:43:48,940 --> 00:43:52,090  
last two days to read too much about it

1099  
00:43:50,380 --> 00:43:55,000  
but it seems to be sort of pain or

1100  
00:43:52,090 --> 00:43:56,980  
temporary paralysis and the sort of

1101  
00:43:55,000 --> 00:43:58,869  
things that are there this sort of

1102  
00:43:56,980 --> 00:44:00,130  
difficult to understand we don't know

1103  
00:43:58,869 --> 00:44:01,960  
what causes a lot of these things

1104  
00:44:00,130 --> 00:44:05,320  
generally and so for it to be caused by

1105  
00:44:01,960 --> 00:44:06,760  
vaccine is it's possible but the the

1106  
00:44:05,320 --> 00:44:08,140  
government's showing what I think is a

1107  
00:44:06,760 --> 00:44:09,760  
bit of due diligence I think they're

1108  
00:44:08,139 --> 00:44:11,739  
kind of going the vaccine was only

1109  
00:44:09,760 --> 00:44:14,109  
introduced in Japan relatively recently

1110  
00:44:11,739 --> 00:44:16,118  
so as I sort of said about Australia you

1111  
00:44:14,108 --> 00:44:17,679  
kind of get this nery of the first

1112

00:44:16,119 --> 00:44:19,390  
round of people getting the vaccine and

1113  
00:44:17,679 --> 00:44:21,699  
having this higher rate of adverse

1114  
00:44:19,389 --> 00:44:23,349  
events so with without I think that's

1115  
00:44:21,699 --> 00:44:24,669  
what it is and i think that the japanese

1116  
00:44:23,349 --> 00:44:26,650  
are just kind of going we're just going

1117  
00:44:24,670 --> 00:44:27,970  
to stop we're going to have a look we're

1118  
00:44:26,650 --> 00:44:30,430  
going to actually investigate these

1119  
00:44:27,969 --> 00:44:32,319  
reports and we'll see where we stand but

1120  
00:44:30,429 --> 00:44:34,210  
i mean it's the same vaccine as being in

1121  
00:44:32,320 --> 00:44:36,100  
Australia for six years it's the same

1122  
00:44:34,210 --> 00:44:39,820  
vaccine that's in the States

1123  
00:44:36,099 --> 00:44:42,880  
it's unlikely I never say never because

1124  
00:44:39,820 --> 00:44:45,460  
you know who knows I never say it's

1125  
00:44:42,880 --> 00:44:47,320  
unlikely to be causing these effects and

1126  
00:44:45,460 --> 00:44:50,050

they're not not anything we've actually

1127

00:44:47,320 --> 00:44:51,550

picked up I mean in Australia with in

1128

00:44:50,050 --> 00:44:53,560

the first couple of years they found a

1129

00:44:51,550 --> 00:44:55,870

high rate of fainting amongst teenage

1130

00:44:53,559 --> 00:44:58,329

girls who are getting the vaccine which

1131

00:44:55,869 --> 00:45:00,099

they kind of eventually put down to you

1132

00:44:58,329 --> 00:45:02,319

have a higher rate of fainting amongst

1133

00:45:00,099 --> 00:45:04,900

teenage girls you do get these odd

1134

00:45:02,320 --> 00:45:06,940

things particular with new vaccines and

1135

00:45:04,900 --> 00:45:08,440

particular with vaccines about diseases

1136

00:45:06,940 --> 00:45:11,769

that you're not going to see for 10 or

1137

00:45:08,440 --> 00:45:12,880

20 years and that a sexually-transmitted

1138

00:45:11,769 --> 00:45:15,429

there's all these different things that

1139

00:45:12,880 --> 00:45:17,769

play on people's minds can you tell us a

1140

00:45:15,429 --> 00:45:20,019

little bit about post sort of marketing

1141  
00:45:17,769 --> 00:45:21,670  
surveillance data so at this time with

1142  
00:45:20,019 --> 00:45:24,070  
this vaccine we're still collecting data

1143  
00:45:21,670 --> 00:45:25,659  
on safety of it aren't we yeah I mean

1144  
00:45:24,070 --> 00:45:27,519  
we're still collecting data and I

1145  
00:45:25,659 --> 00:45:30,460  
imagine we'll keep on collecting data

1146  
00:45:27,519 --> 00:45:32,250  
for a very long time the sort of looking

1147  
00:45:30,460 --> 00:45:36,280  
at these adverse reports and there was a

1148  
00:45:32,250 --> 00:45:38,110  
study done in I think 2010 by Peter

1149  
00:45:36,280 --> 00:45:40,150  
McIntyre in Australia that looked at the

1150  
00:45:38,110 --> 00:45:43,269  
adverse events with the rollout of HPV

1151  
00:45:40,150 --> 00:45:46,320  
so this is that government or sort of

1152  
00:45:43,269 --> 00:45:48,579  
government funded study no links to

1153  
00:45:46,320 --> 00:45:51,670  
pharmaceutical companies looking at post

1154  
00:45:48,579 --> 00:45:54,819  
marketing they had 1394 adverse

1155  
00:45:51,670 --> 00:45:57,280  
reactions with 5.8 million doses

1156  
00:45:54,820 --> 00:46:00,210  
distributed so if every girl got three

1157  
00:45:57,280 --> 00:46:02,380  
doses is about 1.9 million people and

1158  
00:46:00,210 --> 00:46:03,940  
what they found was pretty much what

1159  
00:46:02,380 --> 00:46:06,579  
they've found with other studies that

1160  
00:46:03,940 --> 00:46:08,470  
you've got side effects but the pattern

1161  
00:46:06,579 --> 00:46:10,900  
ninety-four ninety-five percent of them

1162  
00:46:08,469 --> 00:46:13,239  
a minor so you saw arm your redness your

1163  
00:46:10,900 --> 00:46:15,490  
injection site obviously you do get that

1164  
00:46:13,239 --> 00:46:17,229  
sort of fainting and headaches and the

1165  
00:46:15,489 --> 00:46:19,539  
general malaise last for a couple of

1166  
00:46:17,230 --> 00:46:21,519  
days that could or could not be due to

1167  
00:46:19,539 --> 00:46:24,009  
the vaccine the only thing they found

1168  
00:46:21,519 --> 00:46:25,659  
was that there was some they found that

1169

00:46:24,010 --> 00:46:27,340  
there was an increase in one particular

1170  
00:46:25,659 --> 00:46:29,589  
side effect and they found that it was

1171  
00:46:27,340 --> 00:46:33,400  
only New South Wales not in Victoria

1172  
00:46:29,590 --> 00:46:35,230  
which was strange in itself this side

1173  
00:46:33,400 --> 00:46:36,639  
effect occurred and they saying it's at

1174  
00:46:35,230 --> 00:46:38,619  
a rate higher than what they're

1175  
00:46:36,639 --> 00:46:41,589  
expecting but then when you looked at it

1176  
00:46:38,619 --> 00:46:43,659  
was actually 12 individuals as 12 girls

1177  
00:46:41,590 --> 00:46:45,940  
one of the possible sites was this

1178  
00:46:43,659 --> 00:46:47,849  
anaphylaxis which again is a fairly

1179  
00:46:45,940 --> 00:46:49,349  
common side effect because you know

1180  
00:46:47,849 --> 00:46:51,449  
vaccines are made with eggs but they

1181  
00:46:49,349 --> 00:46:54,599  
found that it was his increased in New

1182  
00:46:51,449 --> 00:46:57,569  
South Wales it was 2.6 400,000 compared

1183  
00:46:54,599 --> 00:46:59,670

with 0 point 5 in Victoria point so as

1184

00:46:57,570 --> 00:47:02,160

five times as high but there are only 12

1185

00:46:59,670 --> 00:47:04,559

cases so it's really hard to detect but

1186

00:47:02,159 --> 00:47:06,000

even if you dig in anaphylaxis and at

1187

00:47:04,559 --> 00:47:08,489

all these girls recovered without a

1188

00:47:06,000 --> 00:47:10,889

problem the rate for anaphylaxis pretty

1189

00:47:08,489 --> 00:47:14,429

much mirrors the exact same rate of

1190

00:47:10,889 --> 00:47:16,139

cervical cancer deaths so there's your

1191

00:47:14,429 --> 00:47:18,149

chance you've got a two and a hundred

1192

00:47:16,139 --> 00:47:20,429

thousand chance of getting an adverse an

1193

00:47:18,150 --> 00:47:22,920

anaphylactic reaction which we now are

1194

00:47:20,429 --> 00:47:24,480

aware of and monitor or you have exactly

1195

00:47:22,920 --> 00:47:26,639

the same risk when you don't get the

1196

00:47:24,480 --> 00:47:28,800

vaccine of of getting and dying of

1197

00:47:26,639 --> 00:47:30,839

cervical cancer alright Dave well I

1198  
00:47:28,800 --> 00:47:32,100  
might leave it there but um we want

1199  
00:47:30,840 --> 00:47:34,590  
everyone obviously to go and read your

1200  
00:47:32,099 --> 00:47:37,259  
paper it's open access so we can all see

1201  
00:47:34,590 --> 00:47:40,340  
it absolutely it's um it's freely

1202  
00:47:37,260 --> 00:47:42,960  
available it's at infectious agents and

1203  
00:47:40,340 --> 00:47:45,420  
cancer David Hawks on the first author

1204  
00:47:42,960 --> 00:47:48,090  
at the moment where the where the top

1205  
00:47:45,420 --> 00:47:49,650  
article where a little window with most

1206  
00:47:48,090 --> 00:47:51,900  
recent review and we're on that and

1207  
00:47:49,650 --> 00:47:53,970  
please feel free to access that have a

1208  
00:47:51,900 --> 00:47:56,550  
read if you've got any questions i'm on

1209  
00:47:53,969 --> 00:47:59,159  
twitter at mr. Hawks so that's at mr.

1210  
00:47:56,550 --> 00:48:01,560  
Hawks and yet feel free to drop me a

1211  
00:47:59,159 --> 00:48:04,559  
line great well thanks David and I hope

1212  
00:48:01,559 --> 00:48:07,289  
this is the first of many SI bien

1213  
00:48:04,559 --> 00:48:09,029  
related publications I'm in particular

1214  
00:48:07,289 --> 00:48:11,759  
because i don't think the avian have any

1215  
00:48:09,030 --> 00:48:14,070  
yet do they know i'm as i said i've been

1216  
00:48:11,760 --> 00:48:16,110  
involved in these stop the avian for

1217  
00:48:14,070 --> 00:48:18,960  
less than four out three and a half

1218  
00:48:16,110 --> 00:48:22,079  
years and we've got a publication

1219  
00:48:18,960 --> 00:48:23,519  
they've had the ABN for 19 years and an

1220  
00:48:22,079 --> 00:48:25,049  
income of what is it about three hundred

1221  
00:48:23,519 --> 00:48:28,170  
thousand dollars a year for a lot of

1222  
00:48:25,050 --> 00:48:30,630  
that time and still no publications so

1223  
00:48:28,170 --> 00:48:31,860  
are we are certainly value for money so

1224  
00:48:30,630 --> 00:48:34,349  
if the government wants to actually give

1225  
00:48:31,860 --> 00:48:35,970  
us a grand I reckon look at my they'll

1226

00:48:34,349 --> 00:48:38,610  
get value for money for her that would

1227  
00:48:35,969 --> 00:48:40,619  
be fantastic alright well thank you go

1228  
00:48:38,610 --> 00:48:42,570  
to david hawks who is a research officer

1229  
00:48:40,619 --> 00:48:45,480  
at the flory institute of neuroscience

1230  
00:48:42,570 --> 00:48:47,780  
of mental health in victoria nice thanks

1231  
00:48:45,480 --> 00:48:47,780  
for having

1232  
00:48:52,940 --> 00:48:57,210  
hey guys this is jay from the skeptics

1233  
00:48:55,769 --> 00:48:59,820  
guide to the universe er whoa whoa whoa

1234  
00:48:57,210 --> 00:49:01,230  
hold on whoa everybody knows I'm the

1235  
00:48:59,820 --> 00:49:03,150  
only reason to listen to the Freak Show

1236  
00:49:01,230 --> 00:49:09,030  
right I mean it was up to me the show

1237  
00:49:03,150 --> 00:49:11,460  
would start with this yeah boy well

1238  
00:49:09,030 --> 00:49:13,320  
Rebecca would hate that probably but I

1239  
00:49:11,460 --> 00:49:14,610  
mean I'd rock that listen to our show

1240  
00:49:13,320 --> 00:49:16,410

and you can learn about cool stuff like

1241

00:49:14,610 --> 00:49:18,150

a technological singularity which is

1242

00:49:16,409 --> 00:49:19,679

someday when technology progresses so

1243

00:49:18,150 --> 00:49:21,059

fast that it would make the Industrial

1244

00:49:19,679 --> 00:49:24,089

Revolution look like a kid science

1245

00:49:21,059 --> 00:49:28,190

project anyway come check us out at WWDC

1246

00:49:24,090 --> 00:49:28,190

epic sea org get your son

1247

00:49:47,190 --> 00:49:50,920

thank you for listening to the skeptic

1248

00:49:49,329 --> 00:49:54,369

zone with the rain still pelting down

1249

00:49:50,920 --> 00:49:56,800

outside here in Sydney Australia folks I

1250

00:49:54,369 --> 00:49:59,230

can't wait I can't wait to get better

1251

00:49:56,800 --> 00:50:03,610

but I can't wait to get on that plane in

1252

00:49:59,230 --> 00:50:05,920

a week or so and head to the USA and get

1253

00:50:03,610 --> 00:50:08,500

ready for the amazing meeting in Las

1254

00:50:05,920 --> 00:50:10,930

Vegas if you haven't bought your tickets

1255  
00:50:08,500 --> 00:50:13,360  
yet it's time to do so the amazing

1256  
00:50:10,929 --> 00:50:16,019  
meeting in Las Vegas meet James Randi DJ

1257  
00:50:13,360 --> 00:50:19,480  
Grothe and a host of other fabulous

1258  
00:50:16,019 --> 00:50:21,940  
skeptics I can't wait to get there i'll

1259  
00:50:19,480 --> 00:50:24,010  
be doing water divining demonstrations

1260  
00:50:21,940 --> 00:50:25,599  
and power balance demonstrations in the

1261  
00:50:24,010 --> 00:50:29,770  
hall i'll be giving a talk on the main

1262  
00:50:25,599 --> 00:50:32,139  
stage very exciting very exciting if you

1263  
00:50:29,769 --> 00:50:35,170  
come along drop by and say hello and i

1264  
00:50:32,139 --> 00:50:36,429  
shall offer you a must stick in fact i

1265  
00:50:35,170 --> 00:50:40,180  
know some good friends of mine from

1266  
00:50:36,429 --> 00:50:43,000  
around Australia are also flying to the

1267  
00:50:40,179 --> 00:50:45,099  
amazing meeting and if you are I

1268  
00:50:43,000 --> 00:50:46,900  
encourage you friends from around

1269  
00:50:45,099 --> 00:50:49,119  
Australia bring the packet of must

1270  
00:50:46,900 --> 00:50:51,639  
explore than better I always run out

1271  
00:50:49,119 --> 00:50:55,659  
when I'm there because I know how how

1272  
00:50:51,639 --> 00:50:57,730  
much americans love to taste mastics yes

1273  
00:50:55,659 --> 00:50:59,859  
with that day yummy thought in my mind

1274  
00:50:57,730 --> 00:51:02,320  
it's time for me to say this is Richard

1275  
00:50:59,860 --> 00:51:09,550  
Saunders thanking you once again and

1276  
00:51:02,320 --> 00:51:12,940  
signing off from Sydney Australia you've

1277  
00:51:09,550 --> 00:51:17,530  
been listening to the skeptic zone visit

1278  
00:51:12,940 --> 00:51:20,019  
her website at [www skeptics on TV](http://www.skepticsontv.com) for

1279  
00:51:17,530 --> 00:51:22,650  
comments contacts and extra video

1280  
00:51:20,019 --> 00:51:22,650  
reports

1281  
00:51:25,599 --> 00:51:27,630  
Oh