

The Skeptic Zone  
Show 383 - 21 Feb 2016



Wi-Fried?

1  
00:00:21,630 --> 00:00:09,100  
welcome to the skeptic zone the podcast

2  
00:00:27,880 --> 00:00:24,370  
hello and welcome to the skeptic zone

3  
00:00:30,939 --> 00:00:27,890  
episode number 383 for the 21st of

4  
00:00:34,900 --> 00:00:30,949  
februari 2016 Richard Saunders here with

5  
00:00:38,110 --> 00:00:34,910  
you from a secret location a secret

6  
00:00:41,320 --> 00:00:38,120  
location doing some field work that's

7  
00:00:42,430 --> 00:00:41,330  
why my voice in this episode is going to

8  
00:00:45,310 --> 00:00:42,440  
sound a little bit different it's

9  
00:00:48,250 --> 00:00:45,320  
because well I'm on location yes I know

10  
00:00:50,530 --> 00:00:48,260  
it sounds very secretive but just roll

11  
00:00:52,119 --> 00:00:50,540  
with me on this one coming up on this

12  
00:00:57,219 --> 00:00:52,129  
week's show we're going to be reporting

13  
00:00:59,829 --> 00:00:57,229

on the catalyst fiasco now catalyst is

14

00:01:03,450 --> 00:00:59,839

the ABC TV that's the Australian

15

00:01:07,090 --> 00:01:03,460

broadcasting corporation our TVs

16

00:01:09,310 --> 00:01:07,100

flagship science show it's been going

17

00:01:11,649 --> 00:01:09,320

for many years and in fact Dr. Paul

18

00:01:14,140 --> 00:01:11,659

Willis who you hear frequently from the

19

00:01:16,980 --> 00:01:14,150

Royal Institution of Australia was a

20

00:01:20,440 --> 00:01:16,990

long time reporter on catalyst

21

00:01:27,069 --> 00:01:20,450

unfortunately last week catalyst ran a

22

00:01:29,830 --> 00:01:27,079

an episode called why fried? which

23

00:01:32,800 --> 00:01:29,840

sadly is more or less a scare mongering

24

00:01:35,260 --> 00:01:32,810

exercise into the dangers or the

25

00:01:39,819 --> 00:01:35,270

so-called dangers or the trumped-up

26  
00:01:43,270 --> 00:01:39,829  
dangers of cell phones Wi-Fi this sort

27  
00:01:48,480 --> 00:01:43,280  
of thing the episode has been roundly

28  
00:01:50,559 --> 00:01:48,490  
condemned by viewers and experts alike

29  
00:01:53,289 --> 00:01:50,569  
we're going to be getting to that story

30  
00:01:56,410 --> 00:01:53,299  
pretty soon at the top of the show also

31  
00:01:59,440 --> 00:01:56,420  
on the show after that it's a radio clip

32  
00:02:01,270 --> 00:01:59,450  
snip from the BBC featuring michael

33  
00:02:03,190 --> 00:02:01,280  
marshall our good friend Michael

34  
00:02:05,379 --> 00:02:03,200  
Marshall from the good thinking Society

35  
00:02:08,740 --> 00:02:05,389  
in the merseyside skeptics now he was

36  
00:02:11,280 --> 00:02:08,750  
interviewed on BBC merseyside about

37  
00:02:16,720 --> 00:02:11,290  
homeopathy together with the GP who is

38  
00:02:19,180 --> 00:02:16,730

also a practicing homeopath and thanks

39

00:02:21,449 --> 00:02:19,190

to Michael Marshall for alerting me to

40

00:02:24,010 --> 00:02:21,459

this little clip I think you'll enjoy it

41

00:02:26,260 --> 00:02:24,020

then to round off the show it's evidence

42

00:02:28,240 --> 00:02:26,270

please with Joe alabaster Joe is going

43

00:02:30,250 --> 00:02:28,250

to be reading a report about the north

44

00:02:32,229 --> 00:02:30,260

coast region of New South Wales where a

45

00:02:33,559 --> 00:02:32,239

good friend Heidi Robertson the raw

46

00:02:35,330 --> 00:02:33,569

skeptic from

47

00:02:39,020 --> 00:02:35,340

modern rivers vaccination supporters

48

00:02:43,489 --> 00:02:39,030

group is based and in fact the story

49

00:02:46,780 --> 00:02:43,499

does even quote her well the crux of the

50

00:02:49,729 --> 00:02:46,790

story is looking at why parents are

51  
00:02:51,860 --> 00:02:49,739  
suspicious of vaccinations and in that

52  
00:02:53,780 --> 00:02:51,870  
part of the world it's a very important

53  
00:02:56,119 --> 00:02:53,790  
issue thanks to all those people who

54  
00:02:58,099 --> 00:02:56,129  
read my little interview on The

55  
00:03:00,530 --> 00:02:58,109  
Huffington Post australia and i'll link

56  
00:03:02,659 --> 00:03:00,540  
that in the show notes it was well my

57  
00:03:05,239 --> 00:03:02,669  
tips and advice for any budding

58  
00:03:07,909 --> 00:03:05,249  
podcaster out there take it or leave it

59  
00:03:10,520 --> 00:03:07,919  
things that should have worked for me

60  
00:03:12,289 --> 00:03:10,530  
more or less in the skeptic zone now

61  
00:03:15,199 --> 00:03:12,299  
thanks to all those people who chip in

62  
00:03:18,229 --> 00:03:15,209  
chip into the skeptic zone via paypal

63  
00:03:21,170 --> 00:03:18,239

you can do that at skeptic zone TV a lot

64

00:03:23,869 --> 00:03:21,180

of people chip in 99 cents a week but it

65

00:03:26,599 --> 00:03:23,879

all helps it really does it covers the

66

00:03:28,789 --> 00:03:26,609

basic costs of putting the show out and

67

00:03:30,909 --> 00:03:28,799

i hope you enjoy it but now it's time

68

00:03:34,189 --> 00:03:30,919

for me to run to the secret location

69

00:03:36,709 --> 00:03:34,199

covered open it up find some rice

70

00:03:42,920 --> 00:03:36,719

crackers munch those well I'm doing that

71

00:03:42,930 --> 00:04:01,930

you

72

00:04:08,030 --> 00:04:05,600

earlier last week abc-tv's catalyst

73

00:04:13,790 --> 00:04:08,040

their flagship science show add a

74

00:04:18,020 --> 00:04:13,800

program called why fried ? all about the

75

00:04:21,440 --> 00:04:18,030

supposed dangers of Wi-Fi radiation cell

76  
00:04:24,980 --> 00:04:21,450  
phone radiation affecting the brain here

77  
00:04:34,529 --> 00:04:24,990  
is a short clip used at the beginning of

78  
00:04:41,260 --> 00:04:38,679  
you can't see it or hear it but Wi-Fi

79  
00:04:45,399 --> 00:04:41,270  
blankets our homes our cities and our

80  
00:04:47,589 --> 00:04:45,409  
schools children today are growing up in

81  
00:04:50,409 --> 00:04:47,599  
a sea of radio frequency microwave

82  
00:04:56,140 --> 00:04:50,419  
radiation that did not exist five years

83  
00:04:57,969 --> 00:04:56,150  
ago our safety agencies dispute that

84  
00:05:01,119 --> 00:04:57,979  
wireless devices like mobile phones

85  
00:05:03,399 --> 00:05:01,129  
cause harm I don't think it's good

86  
00:05:06,429 --> 00:05:03,409  
enough to say at the moment that mobile

87  
00:05:09,249 --> 00:05:06,439  
phone used us cause that's cause cancer

88  
00:05:10,629 --> 00:05:09,259

cell phones Amit post radiation edges

89

00:05:13,119 --> 00:05:10,639

but some of the world's leading

90

00:05:15,809 --> 00:05:13,129

scientists and industry insiders are

91

00:05:19,119 --> 00:05:15,819

breaking ranks to warn us of the risks

92

00:05:23,679 --> 00:05:19,129

there is an association between heavy

93

00:05:25,149 --> 00:05:23,689

mobile phone use and brain tumors I've

94

00:05:27,129 --> 00:05:25,159

been in their technology in show my

95

00:05:30,339 --> 00:05:27,139

career and I seen a tremendous benefits

96

00:05:33,700 --> 00:05:30,349

the technology can provide my concern is

97

00:05:36,519 --> 00:05:33,710

snow buddy can say that it's safe dude

98

00:05:39,490 --> 00:05:36,529

mobile phones cause brain cancer and is

99

00:05:41,290 --> 00:05:39,500

Wi-Fi making us sick in this episode I

100

00:05:43,629 --> 00:05:41,300

investigate the latest research and

101  
00:05:49,210 --> 00:05:43,639  
advice about the safety of our modern

102  
00:05:54,050 --> 00:05:52,280  
dramatic music scaremongering we might

103  
00:05:57,920 --> 00:05:54,060  
say it's the flavor of the whole show

104  
00:05:59,720 --> 00:05:57,930  
the whole report now I will add the link

105  
00:06:03,080 --> 00:05:59,730  
to the video and the transcript the

106  
00:06:05,660 --> 00:06:03,090  
entire report for you to peruse if you

107  
00:06:07,100 --> 00:06:05,670  
so desire needless to say this report

108  
00:06:10,100 --> 00:06:07,110  
has come in for a huge amount of

109  
00:06:13,040 --> 00:06:10,110  
criticism I refer to report such as the

110  
00:06:16,970 --> 00:06:13,050  
one by Cigna Dean writing for the SBS

111  
00:06:21,470 --> 00:06:16,980  
website expert audience slam ABC's

112  
00:06:23,030 --> 00:06:21,480  
catalyst report on Wi-Fi danger science

113  
00:06:25,790 --> 00:06:23,040

and health experts are slamming the

114

00:06:27,440 --> 00:06:25,800

latest episode of ABC's catalyst on the

115

00:06:30,320 --> 00:06:27,450

potential health dangers of wireless

116

00:06:33,440 --> 00:06:30,330

devices calling it scare mongering and

117

00:06:35,420 --> 00:06:33,450

incorrect very good and thorough report

118

00:06:38,150 --> 00:06:35,430

by Cigna Dean and I'll link to that in

119

00:06:39,710 --> 00:06:38,160

the show notes other outlets chiming in

120

00:06:43,430 --> 00:06:39,720

with criticism include the sydney

121

00:06:46,100 --> 00:06:43,440

morning herald the conversation and the

122

00:06:49,070 --> 00:06:46,110

australian skeptics now later on I'll

123

00:06:52,010 --> 00:06:49,080

read the bent spoon nomination for

124

00:06:53,870 --> 00:06:52,020

catalyst by Australian skeptics but

125

00:06:56,270 --> 00:06:53,880

right now what I'm going to do is run a

126  
00:06:59,210 --> 00:06:56,280  
report from our good friends at the

127  
00:07:01,340 --> 00:06:59,220  
Royal Institution of Australia and

128  
00:07:05,240 --> 00:07:01,350  
immediately following that report I'll

129  
00:07:08,410 --> 00:07:05,250  
read out the bent spoon nomination from

130  
00:07:15,220 --> 00:07:10,840  
now those wonderful people at the Royal

131  
00:07:19,630 --> 00:07:15,230  
Institution of Australia [www r-ia us ova](http://www.ria.us.ova)

132  
00:07:21,400 --> 00:07:19,640  
you have a new initiative a new

133  
00:07:23,230 --> 00:07:21,410  
initiative when you say that yes I

134  
00:07:28,360 --> 00:07:23,240  
suppose you can look out it's

135  
00:07:33,130 --> 00:07:28,370  
Australia's science channel go to [www RI](http://www.RI)

136  
00:07:35,170 --> 00:07:33,140  
a u.s. TV now there's a host of videos

137  
00:07:36,850 --> 00:07:35,180  
up there already but the one we're

138  
00:07:40,090 --> 00:07:36,860

playing you today is in line with our

139

00:07:43,090 --> 00:07:40,100

current story about the catalyst Wi-Fi

140

00:07:47,050 --> 00:07:43,100

program in response to the ABC catalyst

141

00:07:49,210 --> 00:07:47,060

airing why fried are ayahs spoke to

142

00:07:51,040 --> 00:07:49,220

Professor Rodney Croft from the

143

00:07:53,980 --> 00:07:51,050

University of Wollongong who is an

144

00:07:56,680 --> 00:07:53,990

expert on electromagnetic effects and

145

00:07:59,200 --> 00:07:56,690

human health to seek the truth about

146

00:08:02,170 --> 00:07:59,210

this myth and now from the Royal

147

00:08:06,010 --> 00:08:02,180

Institution of Australia it's Ben and

148

00:08:08,170 --> 00:08:06,020

Kasey so we're pretty sick seeing our

149

00:08:10,690 --> 00:08:08,180

feed spam today about the dangers of

150

00:08:12,550 --> 00:08:10,700

Wi-Fi yeah this week's episode of

151  
00:08:14,530 --> 00:08:12,560  
catalyst was the one to launch a million

152  
00:08:16,780 --> 00:08:14,540  
I rolls around our office when in fact

153  
00:08:18,970 --> 00:08:16,790  
this issue breaks down pretty simply

154  
00:08:21,190 --> 00:08:18,980  
yeah at its core there's actually no

155  
00:08:24,400 --> 00:08:21,200  
evidence which shows any link between

156  
00:08:26,770 --> 00:08:24,410  
our Wi-Fi and mobile phones and serious

157  
00:08:29,380 --> 00:08:26,780  
ill effects on our health there's really

158  
00:08:32,080 --> 00:08:29,390  
no evidence at all that there's a link

159  
00:08:34,810 --> 00:08:32,090  
between Wi-Fi use and health there's

160  
00:08:38,020 --> 00:08:34,820  
been a lot of research conductors but

161  
00:08:40,270 --> 00:08:38,030  
it's a very low power level and we just

162  
00:08:42,670 --> 00:08:40,280  
can't find any link with health in

163  
00:08:45,550 --> 00:08:42,680

general we've got very flat rates of

164

00:08:47,440 --> 00:08:45,560

brain cancers for instance so we do see

165

00:08:49,870 --> 00:08:47,450

little changes but they're not actually

166

00:08:52,000 --> 00:08:49,880

related to mobile phones what we find

167

00:08:53,770 --> 00:08:52,010

for instance with rats is that they

168

00:08:55,690 --> 00:08:53,780

change their eating behaviour very

169

00:08:59,170 --> 00:08:55,700

slightly they become a little bit less

170

00:09:02,590 --> 00:08:59,180

hungry so that's the threshold that we

171

00:09:05,560 --> 00:09:02,600

refer to as a health effect now in terms

172

00:09:09,180 --> 00:09:05,570

of Wi-Fi what we're talking about is a

173

00:09:12,100 --> 00:09:09,190

level about five to five thousand to

174

00:09:15,970 --> 00:09:12,110

50,000 times lower than that so

175

00:09:18,850 --> 00:09:15,980

extremely extremely small levels that we

176

00:09:21,730 --> 00:09:18,860

would find very hard to actually detect

177

00:09:24,700 --> 00:09:21,740

in terms of a biological change

178

00:09:27,040 --> 00:09:24,710

radiation like this changes temperature

179

00:09:29,740 --> 00:09:27,050

and that's how it can have an influence

180

00:09:32,350 --> 00:09:29,750

at very high levels but at the kind of

181

00:09:35,260 --> 00:09:32,360

level we get from a Wi-Fi for instance

182

00:09:37,180 --> 00:09:35,270

we'd find it very hard to actually see

183

00:09:39,790 --> 00:09:37,190

any temperature change in the body at

184

00:09:42,160 --> 00:09:39,800

all and our body is very used to dealing

185

00:09:44,170 --> 00:09:42,170

with quite large temperature changes and

186

00:09:46,030 --> 00:09:44,180

any claims that kids are more

187

00:09:47,830 --> 00:09:46,040

susceptible than adults well we just

188

00:09:51,370 --> 00:09:47,840

can't prove that there are slight

189

00:09:53,830 --> 00:09:51,380

changes in how small people versus

190

00:09:56,980 --> 00:09:53,840

larger people absorb the energy from

191

00:09:59,080 --> 00:09:56,990

Wi-Fi or mobile phones but these don't

192

00:10:02,650 --> 00:09:59,090

correspond to anything to do with health

193

00:10:05,200 --> 00:10:02,660

so you can get slightly larger exposures

194

00:10:08,350 --> 00:10:05,210

but on the other hand a smaller person

195

00:10:10,810 --> 00:10:08,360

will also give off more heat and produce

196

00:10:14,080 --> 00:10:10,820

a compensatory effect that means the net

197

00:10:16,750 --> 00:10:14,090

result is no change so an adult and a

198

00:10:19,270 --> 00:10:16,760

child as far as science has been able to

199

00:10:21,400 --> 00:10:19,280

determine are identical in terms of the

200

00:10:24,160 --> 00:10:21,410

effect of radiation from mobile phones

201  
00:10:25,960 --> 00:10:24,170  
and Wi-Fi there's just no evidence that

202  
00:10:27,640 --> 00:10:25,970  
making a call on your mobile phone or

203  
00:10:29,590 --> 00:10:27,650  
hooking up to your Wi-Fi will mean that

204  
00:10:31,960 --> 00:10:29,600  
you get cancer now this whole episode

205  
00:10:35,080 --> 00:10:31,970  
was just about playing up to the fears

206  
00:10:38,290 --> 00:10:35,090  
of your parents some people expect

207  
00:10:41,500 --> 00:10:38,300  
science to be able to give us a hundred

208  
00:10:44,140 --> 00:10:41,510  
percent secure answer that something is

209  
00:10:47,200 --> 00:10:44,150  
safe and they'd like to see that before

210  
00:10:50,380 --> 00:10:47,210  
they're willing to have sort of society

211  
00:10:53,140 --> 00:10:50,390  
use a product a food and a mission

212  
00:10:55,570 --> 00:10:53,150  
whatever it may be but science can't do

213  
00:10:57,130 --> 00:10:55,580

that science can never ever show that

214

00:10:59,670 --> 00:10:57,140

something is a hundred percent safe

215

00:11:02,470 --> 00:10:59,680

doesn't matter if its water orange juice

216

00:11:04,540 --> 00:11:02,480

Wi-Fi or a mobile phone it just can't

217

00:11:07,630 --> 00:11:04,550

show that so really it's a matter of

218

00:11:09,130 --> 00:11:07,640

looking to try to find harm and that's

219

00:11:11,110 --> 00:11:09,140

what the research has really been doing

220

00:11:14,860 --> 00:11:11,120

there's been a huge amount of research

221

00:11:17,350 --> 00:11:14,870

out there trying to find harm and at the

222

00:11:19,660 --> 00:11:17,360

moment we can't find any you can never

223

00:11:21,820 --> 00:11:19,670

been 100% sure about things like this

224

00:11:24,610 --> 00:11:21,830

since those fuzzy edges which people

225

00:11:26,350 --> 00:11:24,620

exploit fear mongering the episode ended

226

00:11:29,710 --> 00:11:26,360

with the guest asking do we really want

227

00:11:31,690 --> 00:11:29,720

to see proof yes yes we do we really

228

00:11:33,880 --> 00:11:31,700

want to see proof we really want to see

229

00:11:34,840 --> 00:11:33,890

evidence that's how we want to make our

230

00:11:36,699 --> 00:11:34,850

decisions

231

00:11:39,249 --> 00:11:36,709

and I find it a bit irresponsible to

232

00:11:41,410 --> 00:11:39,259

enter the entire episode this way and

233

00:11:43,420 --> 00:11:41,420

I'm kind of just as disappointed in the

234

00:11:45,400 --> 00:11:43,430

journalism as I am in the standards of

235

00:11:47,590 --> 00:11:45,410

science that we saw I think we should

236

00:12:01,809 --> 00:11:47,600

all expect more from a report on

237

00:12:08,029 --> 00:12:05,539

bent spoon nomination for ABC catalyst

238

00:12:11,509 --> 00:12:08,039

by Tim mendon published on the

239

00:12:18,139 --> 00:12:11,519

Australian skeptics website at wwc

240

00:12:20,479 --> 00:12:18,149

optics com au februari 19th 2016 ABC TV

241

00:12:22,819 --> 00:12:20,489

science program catalyst and one of its

242

00:12:25,159 --> 00:12:22,829

chief science reporters dr. Mary and

243

00:12:27,289 --> 00:12:25,169

Maisy have been nominated for the

244

00:12:29,869 --> 00:12:27,299

Australian skeptics bent spoon award a

245

00:12:33,889 --> 00:12:29,879

report by dr. Mary and amazed he titled

246

00:12:36,969 --> 00:12:33,899

why fried and broadcast on februari 16

247

00:12:39,319 --> 00:12:36,979

looked at be supposed health dangers of

248

00:12:43,849 --> 00:12:39,329

Wi-Fi connections for smartphones

249

00:12:46,429 --> 00:12:43,859

laptops tablets etc the program and dr.

250

00:12:48,710 --> 00:12:46,439

Demasi have been criticized before for

251  
00:12:53,149 --> 00:12:48,720  
promoting unsubstantiated scientific

252  
00:12:55,519 --> 00:12:53,159  
evidence of dangerous products in 2014

253  
00:12:58,249 --> 00:12:55,529  
dr. demacian catalyst presented a case

254  
00:13:00,879 --> 00:12:58,259  
against statins in cholesterol control

255  
00:13:03,979 --> 00:13:00,889  
the program was criticized for using

256  
00:13:06,469 --> 00:13:03,989  
experts with vested interests in

257  
00:13:09,109 --> 00:13:06,479  
promoting alternative medicine to put

258  
00:13:11,239 --> 00:13:09,119  
the anti statin case and pitching the

259  
00:13:14,869 --> 00:13:11,249  
proponents of established evidence-based

260  
00:13:16,999 --> 00:13:14,879  
medicine into a minor role this time the

261  
00:13:19,519 --> 00:13:17,009  
same process has been used to alert

262  
00:13:23,389 --> 00:13:19,529  
people to the dangers of sticking

263  
00:13:26,089 --> 00:13:23,399

smartphones to their ears it uses six

264

00:13:28,789 --> 00:13:26,099

experts at least one without any

265

00:13:31,460 --> 00:13:28,799

attribution to put the case for the

266

00:13:32,629 --> 00:13:31,470

supposed dangers and only one scientist

267

00:13:34,969 --> 00:13:32,639

who pointed to the lack of any

268

00:13:37,159 --> 00:13:34,979

scientific evidence that supports the

269

00:13:38,839 --> 00:13:37,169

danger claims even that science was

270

00:13:40,789 --> 00:13:38,849

encouraged to state that science was

271

00:13:43,159 --> 00:13:40,799

never one hundred percent sure of

272

00:13:46,129 --> 00:13:43,169

something which in the program's point

273

00:13:47,749 --> 00:13:46,139

of view equated to quote you can't

274

00:13:49,999 --> 00:13:47,759

therefore say it's one hundred percent

275

00:13:51,979 --> 00:13:50,009

safe and therefore it must be dangerous

276

00:13:54,229 --> 00:13:51,989

end quote in response to the criticism

277

00:13:57,859 --> 00:13:54,239

catalyst responded on its Facebook page

278

00:14:00,439 --> 00:13:57,869

that quote the program and its producers

279

00:14:02,809 --> 00:14:00,449

recognized there's a debate understand

280

00:14:06,559 --> 00:14:02,819

that the science is not settled and that

281

00:14:08,840 --> 00:14:06,569

it is an issue of public concern that's

282

00:14:11,719 --> 00:14:08,850

why the catalyst program spoke to those

283

00:14:12,780 --> 00:14:11,729

who consider the increased risk to be

284

00:14:15,120 --> 00:14:12,790

significant

285

00:14:17,850 --> 00:14:15,130

and concerning and to others who do not

286

00:14:20,610 --> 00:14:17,860

consider it to be significant including

287

00:14:26,640 --> 00:14:20,620

extensive quotes from a spokesman for

288

00:14:29,670 --> 00:14:26,650

the ARP ans a and the industry body AMTA

289

00:14:32,760 --> 00:14:29,680

the program also included the views of a

290

00:14:35,580 --> 00:14:32,770

prominent brain surgeon Charlie Teo and

291

00:14:38,280 --> 00:14:35,590

prominent cancer expert Professor Bruce

292

00:14:40,140 --> 00:14:38,290

Armstrong it is also important to note

293

00:14:43,140 --> 00:14:40,150

that at least two of the current critics

294

00:14:45,810 --> 00:14:43,150

of the program doctors Bernhard Stuart

295

00:14:47,820 --> 00:14:45,820

and Simon Chapman were invited to

296

00:14:50,580 --> 00:14:47,830

participate in the program but declined

297

00:14:52,500 --> 00:14:50,590

and they agreed to be interviewed their

298

00:14:55,110 --> 00:14:52,510

views would have been included as well

299

00:14:57,330 --> 00:14:55,120

end quote perhaps because of the claim

300

00:14:59,670 --> 00:14:57,340

that quote the science is not settled

301  
00:15:02,070 --> 00:14:59,680  
and quote the catalyst story allowed

302  
00:15:04,260 --> 00:15:02,080  
many unsubstantiated statements that

303  
00:15:07,250 --> 00:15:04,270  
ignored scientific evidence to be made

304  
00:15:10,410 --> 00:15:07,260  
and some of those statements were wrong

305  
00:15:13,950 --> 00:15:10,420  
dr. Sara Loren of the University of

306  
00:15:16,550 --> 00:15:13,960  
Wollongong a researcher at the nhr mcs

307  
00:15:18,840 --> 00:15:16,560  
center for research excellence in

308  
00:15:21,270 --> 00:15:18,850  
electromagnetic energy as well as a

309  
00:15:24,330 --> 00:15:21,280  
member of the wh 0 environmental health

310  
00:15:27,750 --> 00:15:24,340  
criterion evaluation committee on radio

311  
00:15:29,700 --> 00:15:27,760  
frequency fields said that quote many

312  
00:15:32,040 --> 00:15:29,710  
claims were made without providing any

313  
00:15:34,530 --> 00:15:32,050

substantiated science to support what

314

00:15:36,750 --> 00:15:34,540

was essentially individual and selective

315

00:15:38,970 --> 00:15:36,760

opinions that were used to paint an

316

00:15:41,490 --> 00:15:38,980

incorrect picture of the current state

317

00:15:43,890 --> 00:15:41,500

of knowledge indeed there is currently

318

00:15:46,410 --> 00:15:43,900

no scientific evidence that exposure to

319

00:15:49,050 --> 00:15:46,420

low-level radio frequency such as

320

00:15:51,570 --> 00:15:49,060

emitted by mobile phones and Wi-Fi has

321

00:15:53,790 --> 00:15:51,580

an impact on health by not providing a

322

00:15:55,170 --> 00:15:53,800

balanced view on the science catalyst

323

00:15:57,690 --> 00:15:55,180

has left viewers with misleading

324

00:16:00,840 --> 00:15:57,700

messages regarding the use of such

325

00:16:03,270 --> 00:16:00,850

devices which may serve to perpetuate

326

00:16:06,210 --> 00:16:03,280

fear related to a health risk that

327

00:16:08,790 --> 00:16:06,220

currently does not exist unquote dr.

328

00:16:10,950 --> 00:16:08,800

devra Davis an American epidemiologist

329

00:16:13,170 --> 00:16:10,960

and writer who was featured prominently

330

00:16:15,210 --> 00:16:13,180

in the program countered the lack of

331

00:16:18,000 --> 00:16:15,220

scientific evidence for brain damage

332

00:16:21,000 --> 00:16:18,010

from Wi-Fi radiation by saying it was

333

00:16:24,150 --> 00:16:21,010

too early to see any rise in brain

334

00:16:26,309 --> 00:16:24,160

cancer caused by mobile phones or Wi-Fi

335

00:16:28,769 --> 00:16:26,319

and argued that brain cancers after the

336

00:16:31,829 --> 00:16:28,779

Japanese atomic bombs did not appear for

337

00:16:35,579 --> 00:16:31,839

40 years quote that's simply incorrect

338

00:16:37,170 --> 00:16:35,589

in quote said dr. Simon Chapman emeritus

339

00:16:39,869 --> 00:16:37,180

professor in public health at the

340

00:16:42,480 --> 00:16:39,879

University of Sydney he cited a study

341

00:16:44,759 --> 00:16:42,490

published by the american cancer society

342

00:16:47,550 --> 00:16:44,769

that reported on central nervous system

343

00:16:49,650 --> 00:16:47,560

cancers including brain cancers in those

344

00:16:51,960 --> 00:16:49,660

exposed to atomic bomb radiation in

345

00:16:53,579 --> 00:16:51,970

Japan which found that more than fifty

346

00:16:56,369 --> 00:16:53,589

eight percent of those studied were

347

00:16:59,400 --> 00:16:56,379

diagnosed in the first forty years and

348

00:17:02,569 --> 00:16:59,410

some much earlier quote there is no

349

00:17:05,819 --> 00:17:02,579

evidence of any increase in the rate per

350

00:17:08,909 --> 00:17:05,829

100,000 population of brain cancer in

351  
00:17:11,189 --> 00:17:08,919  
any age group in Australia from 1982 to

352  
00:17:13,529 --> 00:17:11,199  
the present other than for the very

353  
00:17:15,480 --> 00:17:13,539  
oldest age group where the increased

354  
00:17:18,480 --> 00:17:15,490  
started well before mobile phones were

355  
00:17:21,360 --> 00:17:18,490  
introduced in Australia and so cannot be

356  
00:17:23,850 --> 00:17:21,370  
explained by mobile phones all cancers

357  
00:17:26,399 --> 00:17:23,860  
in Australia are notifiable and over

358  
00:17:29,460 --> 00:17:26,409  
eighty-five percent of brain cancer is

359  
00:17:32,580 --> 00:17:29,470  
historically verified it's just not a

360  
00:17:34,799 --> 00:17:32,590  
doctor's opinion and quote dr. Darren

361  
00:17:37,169 --> 00:17:34,809  
Saunders is a cancer biologist at the

362  
00:17:39,210 --> 00:17:37,179  
University of New South Wales and is a

363  
00:17:42,149 --> 00:17:39,220

visiting fellow at Big kinghorn Cancer

364

00:17:44,070 --> 00:17:42,159

Center garvan institute he said that

365

00:17:45,779 --> 00:17:44,080

there were key flaws in the argument

366

00:17:48,390 --> 00:17:45,789

made in the program that stood out

367

00:17:50,970 --> 00:17:48,400

significantly one was the lack of any

368

00:17:54,419 --> 00:17:50,980

demonstratable increase in brain cancer

369

00:17:57,260 --> 00:17:54,429

incidents over time quote we have been

370

00:17:59,730 --> 00:17:57,270

exposed to the same kind of non ionizing

371

00:18:01,620 --> 00:17:59,740

electromagnetic radiation long before

372

00:18:04,470 --> 00:18:01,630

mobile phones and Wi-Fi became

373

00:18:07,020 --> 00:18:04,480

commonplace men quote he added that a

374

00:18:09,810 --> 00:18:07,030

second floor was the absence of a

375

00:18:12,360 --> 00:18:09,820

plausible biological mechanism for how

376

00:18:15,149 --> 00:18:12,370

this kind of radiation can cause cancer

377

00:18:17,549 --> 00:18:15,159

quote there were very poor analogues

378

00:18:20,070 --> 00:18:17,559

made with microwave ovens and smoking

379

00:18:22,590 --> 00:18:20,080

which are purely emotive and not based

380

00:18:24,870 --> 00:18:22,600

on actual science comparing a microwave

381

00:18:27,330 --> 00:18:24,880

to a mobile phone is like comparing a

382

00:18:30,390 --> 00:18:27,340

Saturn 5 rocket to your lawnmower and

383

00:18:33,090 --> 00:18:30,400

quote for a supposed scientific program

384

00:18:35,760 --> 00:18:33,100

one sequence in particular was

385

00:18:37,720 --> 00:18:35,770

indicative of poor scientific support

386

00:18:40,660 --> 00:18:37,730

for the radiation claims

387

00:18:43,240 --> 00:18:40,670

dr. Davis used illustrations to explain

388

00:18:45,400 --> 00:18:43,250

the supposed to the extent of radiation

389

00:18:48,220 --> 00:18:45,410

damage to the brain but these were

390

00:18:50,380 --> 00:18:48,230

obviously photolibrary shots of a man

391

00:18:52,630 --> 00:18:50,390

and little girl with colors superimposed

392

00:18:55,330 --> 00:18:52,640

on them the program said this showed

393

00:18:57,670 --> 00:18:55,340

thermal imagery of radiation seeping

394

00:18:59,440 --> 00:18:57,680

into the brain but this imagery could

395

00:19:02,110 --> 00:18:59,450

have easily been applied to any object

396

00:19:05,380 --> 00:19:02,120

it was not generated by those particular

397

00:19:08,500 --> 00:19:05,390

subjects nonetheless dr. Demasi seemed

398

00:19:12,420 --> 00:19:08,510

impressed by the colors the bent spoon

399

00:19:15,460 --> 00:19:12,430

nomination says quote for again

400

00:19:17,890 --> 00:19:15,470

presenting a biased sensationalist story

401  
00:19:20,170 --> 00:19:17,900  
on the scientific topic in this case

402  
00:19:22,720 --> 00:19:20,180  
non-ionizing radiation and the use of

403  
00:19:25,420 --> 00:19:22,730  
Wi-Fi media the program had six

404  
00:19:27,640 --> 00:19:25,430  
scaremongering experts ranged against

405  
00:19:29,770 --> 00:19:27,650  
one scientist saying that there wasn't

406  
00:19:32,800 --> 00:19:29,780  
any scientific evidence that harm was

407  
00:19:35,410 --> 00:19:32,810  
being caused it confused the proper and

408  
00:19:36,880 --> 00:19:35,420  
normal scientific restraint of saying we

409  
00:19:39,010 --> 00:19:36,890  
can't be absolutely sure of something

410  
00:19:42,070 --> 00:19:39,020  
with admitting that something is

411  
00:19:44,920 --> 00:19:42,080  
dangerous poor science bad journalism

412  
00:19:48,550 --> 00:19:44,930  
overly alarmist and even the title of

413  
00:19:51,970 --> 00:19:48,560

the story wife ride was sensationalized

414

00:19:55,120 --> 00:19:51,980

move / Daily Mail here comes catalyst

415

00:20:04,450 --> 00:19:55,130

and that was by Tim mendham as reported

416

00:20:06,880 --> 00:20:04,460

at ww skeptics com a you so there you

417

00:20:10,570 --> 00:20:06,890

are a little round up of this week's hot

418

00:20:12,130 --> 00:20:10,580

topic why fried from the catalyst

419

00:20:15,280 --> 00:20:12,140

program and I think one of the reasons

420

00:20:18,670 --> 00:20:15,290

so many people are so disappointed is

421

00:20:22,270 --> 00:20:18,680

because that well basically we simply

422

00:20:23,700 --> 00:20:22,280

expect better from the ABC and the

423

00:20:26,730 --> 00:20:23,710

catalyst program

424

00:20:30,149 --> 00:20:26,740

for the links mentioned visit [www.a.pegs](http://www.a.pegs)

425

00:20:37,200 --> 00:20:30,159

on TV and it's worth mentioning that the

426

00:20:39,930 --> 00:20:37,210

patched people p8 TCH apostrophe D who

427

00:20:41,669 --> 00:20:39,940

are marketing a little device you put on

428

00:20:45,240 --> 00:20:41,679

your cell phone to protect you from the

429

00:20:47,039 --> 00:20:45,250

evil radiation jumped in early when they

430

00:20:49,200 --> 00:20:47,049

saw the catalyst program was coming up

431

00:20:54,240 --> 00:20:49,210

and if you go to their Facebook page

432

00:21:13,720 --> 00:20:54,250

you'll see certain comments by a certain

433

00:21:20,870 --> 00:21:17,810

dr. Harriet hall md no into thousands as

434

00:21:23,990 --> 00:21:20,880

the skeptic a retired family physician

435

00:21:26,029 --> 00:21:24,000

and former Air Force flight surgeon she

436

00:21:27,730 --> 00:21:26,039

writes about medicine so called

437

00:21:31,630 --> 00:21:27,740

complementary and alternative medicine

438

00:21:34,700 --> 00:21:31,640

science banchory and critical thinking

439

00:21:37,159 --> 00:21:34,710

Harriet now has a free course a series

440

00:21:40,310 --> 00:21:37,169

of ten video lectures on science based

441

00:21:42,350 --> 00:21:40,320

medicine and alternative medicine the

442

00:21:44,450 --> 00:21:42,360

videos and an accompanying course guide

443

00:21:49,310 --> 00:21:44,460

can be found by following the link at

444

00:21:53,860 --> 00:21:49,320

skip dot info or by visiting web Randy's

445

00:21:57,640 --> 00:21:53,870

org slash educational dash modules dot

446

00:21:59,899 --> 00:21:57,650

HTML topics covered in the series are

447

00:22:03,010 --> 00:21:59,909

science-based medicine vs.

448

00:22:06,430 --> 00:22:03,020

evidence-based medicine what is cam

449

00:22:09,620 --> 00:22:06,440

chiropractic acupuncture homeopathy

450

00:22:11,750 --> 00:22:09,630

naturopathy and herbal medicine energy

451  
00:22:14,930 --> 00:22:11,760  
medicine miscellaneous alternatives

452  
00:22:18,190 --> 00:22:14,940  
pitfalls in research and science-based

453  
00:22:20,990 --> 00:22:18,200  
medicine in the media and politics

454  
00:22:23,539 --> 00:22:21,000  
Harriet covers each topic in a matter of

455  
00:22:48,150 --> 00:22:23,549  
fact no-nonsense way that sure to

456  
00:22:53,080 --> 00:22:50,380  
and now here's a clip from the

457  
00:22:55,660 --> 00:22:53,090  
Merseyside skeptics well I should say

458  
00:22:57,670 --> 00:22:55,670  
it's from BBC merseyside they

459  
00:22:59,140 --> 00:22:57,680  
interviewed Michael Marshall from the

460  
00:23:02,410 --> 00:22:59,150  
Merseyside skeptics and the good

461  
00:23:05,290 --> 00:23:02,420  
thinking society as well as dr. hugh

462  
00:23:08,590 --> 00:23:05,300  
nielsen a medical doctor who also

463  
00:23:11,550 --> 00:23:08,600

practices homeopathy don't forget to

464

00:23:14,920 --> 00:23:11,560

visit good thinking society org or

465

00:23:16,630 --> 00:23:14,930

merseyside skeptics or but UK for more

466

00:23:18,760 --> 00:23:16,640

information about Michael Marshall and

467

00:23:21,730 --> 00:23:18,770

the group's he's involved with now I

468

00:23:25,360 --> 00:23:21,740

have a closed listen to the reasoning

469

00:23:29,650 --> 00:23:25,370

but dr. hugh nielsen presents in this

470

00:23:31,870 --> 00:23:29,660

interview change your takia health buses

471

00:23:33,520 --> 00:23:31,880

in liverpool and merle a considering

472

00:23:36,280 --> 00:23:33,530

stopping spending money on homeopathy

473

00:23:38,100 --> 00:23:36,290

currently we're all spend about 31,000

474

00:23:40,660 --> 00:23:38,110

pounds on it liverpool roughly the same

475

00:23:41,950 --> 00:23:40,670

totally in terms of the NHS budget it

476  
00:23:44,530 --> 00:23:41,960  
amounts to naught point naught naught

477  
00:23:45,700 --> 00:23:44,540  
four percent of the entire budget but

478  
00:23:47,410 --> 00:23:45,710  
some people think we shouldn't even be

479  
00:23:49,060 --> 00:23:47,420  
spending that not least a group called

480  
00:23:50,890 --> 00:23:49,070  
the Merseyside skeptics and we'll hear

481  
00:23:53,380 --> 00:23:50,900  
from Mike Marshall from them in a moment

482  
00:23:54,910 --> 00:23:53,390  
but first dr. Hugh Nielsen now he's a GP

483  
00:23:56,500 --> 00:23:54,920  
in Liverpool and as well as using

484  
00:23:58,690 --> 00:23:56,510  
conventional medicine he practices

485  
00:24:00,670 --> 00:23:58,700  
homeopathy one day a week at a clinic in

486  
00:24:02,920 --> 00:24:00,680  
old swamp he told me this room for both

487  
00:24:04,780 --> 00:24:02,930  
in the NHS yeah I use both you know most

488  
00:24:07,570 --> 00:24:04,790

of my professional life is spent using

489

00:24:09,670 --> 00:24:07,580

conventional medicine probably eight

490

00:24:11,980 --> 00:24:09,680

eighty percent most of the time four

491

00:24:13,870 --> 00:24:11,990

days a week am a GP and the one day a

492

00:24:16,810 --> 00:24:13,880

week on a monday i practice homeopathy

493

00:24:20,710 --> 00:24:16,820

and I practice a bit of homeopathy in my

494

00:24:22,390 --> 00:24:20,720

normal everyday GP work and can I ask

495

00:24:25,360 --> 00:24:22,400

you why you believe homeopathy has a

496

00:24:27,880 --> 00:24:25,370

place in the NHS well because I think

497

00:24:29,050 --> 00:24:27,890

it's been around for 200 years and I

498

00:24:30,780 --> 00:24:29,060

think there's a reasonable amount of

499

00:24:34,000 --> 00:24:30,790

evidence that shows that it works and

500

00:24:36,070 --> 00:24:34,010

it's in my experience for certain

501  
00:24:37,750 --> 00:24:36,080  
conditions which works very well it's

502  
00:24:39,970 --> 00:24:37,760  
very safe and it's got very few side

503  
00:24:41,530 --> 00:24:39,980  
effects and it can be very effective the

504  
00:24:43,480 --> 00:24:41,540  
big controversy is that we don't know

505  
00:24:45,160 --> 00:24:43,490  
how it works and some of the remedies

506  
00:24:47,440 --> 00:24:45,170  
that we use are so diluted

507  
00:24:49,360 --> 00:24:47,450  
there is no none of the original

508  
00:24:51,820 --> 00:24:49,370  
substance present yes I was just water

509  
00:24:54,160 --> 00:24:51,830  
is it it's just water in the chemical

510  
00:24:55,840 --> 00:24:54,170  
sense but it's not just water in the

511  
00:24:58,270 --> 00:24:55,850  
physical sense I mean there have been a

512  
00:25:00,790 --> 00:24:58,280  
few quite a few studies looking at the

513  
00:25:02,560 --> 00:25:00,800

properties of these ultra dilute

514

00:25:04,120 --> 00:25:02,570

solutions that we call them and they

515

00:25:06,250 --> 00:25:04,130

appear to they have different physical

516

00:25:07,510 --> 00:25:06,260

properties from pure water but it's

517

00:25:09,310 --> 00:25:07,520

chemically the same as Walt I mean

518

00:25:11,260 --> 00:25:09,320

what's the difference between a chemical

519

00:25:13,360 --> 00:25:11,270

analysis and as you're saying a physical

520

00:25:15,910 --> 00:25:13,370

analysis surely the chemistry is the

521

00:25:17,770 --> 00:25:15,920

physical is it no the chemistry is the

522

00:25:19,960 --> 00:25:17,780

actual molecules that are there or are

523

00:25:21,700 --> 00:25:19,970

not there the visit the physical things

524

00:25:24,670 --> 00:25:21,710

as the actual properties there is some

525

00:25:28,210 --> 00:25:24,680

sort of energy in this remedy right

526

00:25:30,580 --> 00:25:28,220

those has an effect on cells and on

527

00:25:31,900 --> 00:25:30,590

human bodies and an animal's when you

528

00:25:33,130 --> 00:25:31,910

talk about energy there that's the kind

529

00:25:35,140 --> 00:25:33,140

of thing that people who maybe practice

530

00:25:38,620 --> 00:25:35,150

Reiki say isn't it I mean you might as

531

00:25:40,030 --> 00:25:38,630

well lay on hands in that sense no it's

532

00:25:41,500 --> 00:25:40,040

a different and it's a completely

533

00:25:43,630 --> 00:25:41,510

different system from Reiki I don't know

534

00:25:46,060 --> 00:25:43,640

much about Reiki r21 I just but they

535

00:25:48,880 --> 00:25:46,070

talk about energy don't they yes they do

536

00:25:52,210 --> 00:25:48,890

talk about energy but the you know it I

537

00:25:53,650 --> 00:25:52,220

can't explain how it works you know but

538

00:25:55,300 --> 00:25:53,660

I'm just saying that there is evidence

539

00:25:57,370 --> 00:25:55,310

that these ultra dilute solutions have

540

00:25:59,350 --> 00:25:57,380

some sort of effect isn't it just blew

541

00:26:01,390 --> 00:25:59,360

see back then if there isn't any medical

542

00:26:02,800 --> 00:26:01,400

or chemistry involved isn't it just

543

00:26:04,720 --> 00:26:02,810

placebo and I'm not saying that that's

544

00:26:06,520 --> 00:26:04,730

not effective because placebo is very

545

00:26:08,920 --> 00:26:06,530

powerful sometimes but you might as well

546

00:26:11,220 --> 00:26:08,930

give them a sugar pill well I mean

547

00:26:13,540 --> 00:26:11,230

there's been over a hundred trials in

548

00:26:16,390 --> 00:26:13,550

homeopathy have been lots of trials and

549

00:26:18,850 --> 00:26:16,400

the the balance shows that it is more

550

00:26:20,950 --> 00:26:18,860

than placebo and do you think that I

551  
00:26:23,470 --> 00:26:20,960  
mean you you devote one day of Europe

552  
00:26:25,450 --> 00:26:23,480  
your NHS work or one day of your working

553  
00:26:26,920 --> 00:26:25,460  
week to this clearly that's a day when

554  
00:26:28,540 --> 00:26:26,930  
perhaps you could be applying

555  
00:26:31,960 --> 00:26:28,550  
conventional medicine on the NHS to

556  
00:26:33,730 --> 00:26:31,970  
people I could but there's over 250

557  
00:26:36,370 --> 00:26:33,740  
excellent GPS in Liverpool doing that

558  
00:26:39,070 --> 00:26:36,380  
and there's only me practicing

559  
00:26:40,960 --> 00:26:39,080  
homeopathy and as I said I see people

560  
00:26:42,280 --> 00:26:40,970  
that have tried conveying everything in

561  
00:26:44,500 --> 00:26:42,290  
conventional medicine and it hasn't

562  
00:26:46,600 --> 00:26:44,510  
worked right so I think from that point

563  
00:26:48,820 --> 00:26:46,610

of view it's a valuable service you know

564

00:26:50,410 --> 00:26:48,830

and I'm not one might argue well you

565

00:26:51,850 --> 00:26:50,420

know the conventional medicine that

566

00:26:54,160 --> 00:26:51,860

they've got isn't up to scratch that is

567

00:26:55,870 --> 00:26:54,170

not the case you know the GPS in

568

00:26:56,720 --> 00:26:55,880

Liverpool and world are on the whole

569

00:26:58,909 --> 00:26:56,730

excellent

570

00:27:00,320 --> 00:26:58,919

and they're not sending me patience but

571

00:27:01,700 --> 00:27:00,330

they've missed something they have they

572

00:27:03,080 --> 00:27:01,710

haven't diagnosed something that I

573

00:27:04,880 --> 00:27:03,090

haven't tried the right treatment yeah

574

00:27:07,640 --> 00:27:04,890

believe me every single patient that I

575

00:27:10,580 --> 00:27:07,650

see in either st. Catharines or Old Swan

576

00:27:12,159 --> 00:27:10,590

has had the an excellent work up from

577

00:27:14,750 --> 00:27:12,169

the conventional point of view and

578

00:27:16,640 --> 00:27:14,760

sometimes it just doesn't work so that

579

00:27:17,750 --> 00:27:16,650

that's where I think homeopathy comes in

580

00:27:19,280 --> 00:27:17,760

and in a way you've preempted my next

581

00:27:21,169 --> 00:27:19,290

question which was that the NHS spends

582

00:27:23,510 --> 00:27:21,179

four million quid a year on homeopathy

583

00:27:25,669 --> 00:27:23,520

and there are those who say that you

584

00:27:26,990 --> 00:27:25,679

know when nicer withholding expensive

585

00:27:28,700 --> 00:27:27,000

treatments for cancer that do work

586

00:27:29,990 --> 00:27:28,710

because of financial restrictions we

587

00:27:32,480 --> 00:27:30,000

shouldn't be spending a penny on this

588

00:27:34,640 --> 00:27:32,490

stuff well I would disagree that Eric

589

00:27:36,530 --> 00:27:34,650

doesn't work and you know four million

590

00:27:39,260 --> 00:27:36,540

and in addition that's the whole of the

591

00:27:43,039 --> 00:27:39,270

NHS in the UK Liverpool spends

592

00:27:44,960 --> 00:27:43,049

twenty-nine thousand pounds a year which

593

00:27:47,210 --> 00:27:44,970

is point zero zero four percent of their

594

00:27:49,789 --> 00:27:47,220

budget it's a drop in the ocean you know

595

00:27:51,169 --> 00:27:49,799

it is a tiny amount and the NHS drug

596

00:27:52,370 --> 00:27:51,179

budgets I don't know what it is but it's

597

00:27:54,260 --> 00:27:52,380

a hell of a lot more than four million

598

00:27:57,530 --> 00:27:54,270

you know attaching a teacher you might

599

00:27:59,870 --> 00:27:57,540

call it yes old for dilute amount yes

600

00:28:02,180 --> 00:27:59,880

okay and I think we provide a valuable

601  
00:28:04,130 --> 00:28:02,190  
service and yes you know there is always

602  
00:28:07,070 --> 00:28:04,140  
going to be shortages for cancer

603  
00:28:08,930 --> 00:28:07,080  
treatment but we are looking at people

604  
00:28:11,390 --> 00:28:08,940  
who are tried everything conventional

605  
00:28:13,430 --> 00:28:11,400  
medicine and this is a safe and very

606  
00:28:15,140 --> 00:28:13,440  
very cheap and can be effective

607  
00:28:16,970 --> 00:28:15,150  
treatment for this group of people

608  
00:28:18,590 --> 00:28:16,980  
really interesting you thanks a lot for

609  
00:28:21,530 --> 00:28:18,600  
talking on the show today preacher very

610  
00:28:23,930 --> 00:28:21,540  
oprah's retailers dr. hugh nielsen let's

611  
00:28:27,140 --> 00:28:23,940  
also speak to mike marshall here is from

612  
00:28:28,580 --> 00:28:27,150  
the Merseyside skeptics society and they

613  
00:28:31,190 --> 00:28:28,590

have their doubts about this hello to

614

00:28:33,710 --> 00:28:31,200

you Mike hi hi just listening as you

615

00:28:35,720 --> 00:28:33,720

were there if people want this stuff why

616

00:28:38,150 --> 00:28:35,730

shouldn't the NHS pay for it well the

617

00:28:39,770 --> 00:28:38,160

simple fact is it doesn't work it's very

618

00:28:40,850 --> 00:28:39,780

easy to say that there are studies here

619

00:28:42,409 --> 00:28:40,860

there are studies there but actually

620

00:28:44,060 --> 00:28:42,419

when you look at the quality of the

621

00:28:45,590 --> 00:28:44,070

studies the best quality studies showed

622

00:28:48,380 --> 00:28:45,600

there is absolutely no effect in the

623

00:28:49,789 --> 00:28:48,390

homeopathy and this is a case that there

624

00:28:50,990 --> 00:28:49,799

might be one or two doctors here and

625

00:28:53,180 --> 00:28:51,000

there might suggest that it does work

626  
00:28:55,039 --> 00:28:53,190  
but the overwhelming majority of doctors

627  
00:28:57,830 --> 00:28:55,049  
say it will fade to the work in a one in

628  
00:28:59,360 --> 00:28:57,840  
a thousand might say it works 999 would

629  
00:29:01,820 --> 00:28:59,370  
completely disagree in medical

630  
00:29:03,140 --> 00:29:01,830  
establishment the consensus absolutely

631  
00:29:06,289 --> 00:29:03,150  
is clear at this point that homeopathy

632  
00:29:09,169 --> 00:29:06,299  
is nothing ineffective sugar pills for

633  
00:29:09,950 --> 00:29:09,179  
siebel pills you might say the very best

634  
00:29:11,990 --> 00:29:09,960  
most credible

635  
00:29:13,340 --> 00:29:12,000  
expert body's completely agrees British

636  
00:29:15,440 --> 00:29:13,350  
Medical Association the royal

637  
00:29:17,019 --> 00:29:15,450  
pharmaceutical society the House of

638  
00:29:19,220 --> 00:29:17,029

Commons signed Technology Committee

639

00:29:21,080 --> 00:29:19,230

every single one of these bodies have

640

00:29:23,330 --> 00:29:21,090

looked at the evidence said this doesn't

641

00:29:24,680 --> 00:29:23,340

work we shouldn't be wasting 45 million

642

00:29:26,000 --> 00:29:24,690

pounds ago on this well if it's that

643

00:29:27,529 --> 00:29:26,010

money could go to pee if it's appeared

644

00:29:29,029 --> 00:29:27,539

in scientific journals that have been

645

00:29:30,940 --> 00:29:29,039

peer-reviewed then it must be some

646

00:29:33,980 --> 00:29:30,950

backing to it when you look at the

647

00:29:36,080 --> 00:29:33,990

studies that that suggests that it works

648

00:29:38,419 --> 00:29:36,090

i mean i think dr. tanios inside of one

649

00:29:41,149 --> 00:29:38,429

from 2014 the actual conclusions of

650

00:29:42,680 --> 00:29:41,159

study he's citing said this doesn't show

651  
00:29:44,810 --> 00:29:42,690  
that there's a very strong effect it

652  
00:29:46,130 --> 00:29:44,820  
says we need to examine this more

653  
00:29:48,769 --> 00:29:46,140  
evidence is needed because this isn't

654  
00:29:50,779 --> 00:29:48,779  
conclusive the very best studies the

655  
00:29:52,460 --> 00:29:50,789  
ones that are though with double-blind

656  
00:29:55,220 --> 00:29:52,470  
they don't tell anybody whether they're

657  
00:29:56,779 --> 00:29:55,230  
getting the homeopathy with feeble those

658  
00:29:59,060 --> 00:29:56,789  
are the studies that show no effect at

659  
00:30:00,680 --> 00:29:59,070  
all once you start removing the blinding

660  
00:30:02,750 --> 00:30:00,690  
and doing studies I don't have quite as

661  
00:30:04,789 --> 00:30:02,760  
many people in aren't quite as well

662  
00:30:06,440 --> 00:30:04,799  
conducted you start to see artifacts

663  
00:30:07,909 --> 00:30:06,450

appearing as if this works but that's

664

00:30:10,340 --> 00:30:07,919

why we do studies in the best way

665

00:30:11,870 --> 00:30:10,350

possible but simply isn't ever and any

666

00:30:14,090 --> 00:30:11,880

evidence right now that this works at

667

00:30:15,740 --> 00:30:14,100

all but what about those who say well it

668

00:30:17,769 --> 00:30:15,750

worked for me and there will be those

669

00:30:20,840 --> 00:30:17,779

who say that I mean not everybody has

670

00:30:22,190 --> 00:30:20,850

absolute faith in science or at least

671

00:30:23,720 --> 00:30:22,200

they believe that there might be other

672

00:30:25,250 --> 00:30:23,730

things than science that might be at

673

00:30:27,139 --> 00:30:25,260

play and we don't know everything and we

674

00:30:28,310 --> 00:30:27,149

can't we can't claim to can we well

675

00:30:30,260 --> 00:30:28,320

absolutely we don't know everything but

676  
00:30:32,210 --> 00:30:30,270  
the best where we have of finding things

677  
00:30:33,950 --> 00:30:32,220  
out is by doing a proper study on it I

678  
00:30:35,750 --> 00:30:33,960  
mean they can have an individual person

679  
00:30:37,940 --> 00:30:35,760  
will really feel that it worked for them

680  
00:30:39,320 --> 00:30:37,950  
but how do they know that they weren't

681  
00:30:40,370 --> 00:30:39,330  
going to get better anyway or that it

682  
00:30:41,899 --> 00:30:40,380  
wasn't something else that they were

683  
00:30:43,340 --> 00:30:41,909  
doing and that's really what a study is

684  
00:30:45,769 --> 00:30:43,350  
that's really what science is it's not

685  
00:30:47,840 --> 00:30:45,779  
something magical it's not something

686  
00:30:49,519 --> 00:30:47,850  
where that scientists get in a room and

687  
00:30:51,230 --> 00:30:49,529  
decide what's true it's just our way of

688  
00:30:53,180 --> 00:30:51,240

finding out right what is true and what

689

00:30:55,519 --> 00:30:53,190

isn't but that you know he said there

690

00:30:58,220 --> 00:30:55,529

didn't see that he mainly practices this

691

00:31:00,139 --> 00:30:58,230

where the science and the conventional

692

00:31:01,789 --> 00:31:00,149

medicine has failed so it's not like you

693

00:31:03,350 --> 00:31:01,799

would be going this is wouldn't be

694

00:31:04,549 --> 00:31:03,360

first-line treatment with it this would

695

00:31:06,620 --> 00:31:04,559

be something you try after conventional

696

00:31:08,090 --> 00:31:06,630

medicine have failed and maybe it was

697

00:31:10,639 --> 00:31:08,100

the last chance saloon just might work

698

00:31:12,110 --> 00:31:10,649

it's worth a try isn't it well it's very

699

00:31:13,340 --> 00:31:12,120

easy to say that but unfortunately I

700

00:31:15,529 --> 00:31:13,350

said this is money that's coming out of

701  
00:31:17,659 --> 00:31:15,539  
the public purse it's five million

702  
00:31:19,460 --> 00:31:17,669  
pounds ago and it's very easy so there's

703  
00:31:21,019 --> 00:31:19,470  
a very small amount of money from the

704  
00:31:22,940 --> 00:31:21,029  
NHS naught point naught naught four

705  
00:31:23,480 --> 00:31:22,950  
percent but I mean I don't want to be

706  
00:31:26,330 --> 00:31:23,490  
the one who

707  
00:31:28,190 --> 00:31:26,340  
looks at somebody who has had their

708  
00:31:29,810 --> 00:31:28,200  
their treatment denied because of

709  
00:31:31,370 --> 00:31:29,820  
funding reasons and say well it's okay

710  
00:31:32,390 --> 00:31:31,380  
we're only wasting a small amount I mean

711  
00:31:34,190 --> 00:31:32,400  
yes this could have funded your

712  
00:31:36,710 --> 00:31:34,200  
treatment instead we're spending on

713  
00:31:39,049 --> 00:31:36,720

things we know at this point do not work

714

00:31:40,700 --> 00:31:39,059

I think any amount of money spent on

715

00:31:42,650 --> 00:31:40,710

treatments that can be sure not to work

716

00:31:44,060 --> 00:31:42,660

should be something we should be very

717

00:31:45,080 --> 00:31:44,070

concerned about so we should spend that

718

00:31:56,840 --> 00:31:45,090

money in places where they can

719

00:32:02,480 --> 00:31:56,850

legitimately help people on Manor calm

720

00:32:14,250 --> 00:32:07,110

episode 21 with Tim Ferguson

721

00:32:18,660 --> 00:32:16,500

ring the bell do the thing Tim

722

00:32:19,920 --> 00:32:18,670

Ferguson's write a reply to something

723

00:32:24,000 --> 00:32:19,930

that Nam on the know and asked in the

724

00:32:26,130 --> 00:32:24,010

first place don't expect what are you

725

00:32:29,220 --> 00:32:26,140

wondering what do I think it's very

726

00:32:31,440 --> 00:32:29,230

simple you've got to engage with the

727

00:32:35,220 --> 00:32:31,450

Murdoch press if you're not sure about

728

00:32:38,280 --> 00:32:35,230

your political stance read any opinion

729

00:32:40,590 --> 00:32:38,290

page in any of the Murdoch periodicals

730

00:32:43,170 --> 00:32:40,600

Miranda devons that one marrano divine

731

00:32:44,940 --> 00:32:43,180

she's always of interest anything in the

732

00:32:48,210 --> 00:32:44,950

australian janet all bricks in a very

733

00:32:50,610 --> 00:32:48,220

cogent writer and also Henry Ergas who's

734

00:32:52,620 --> 00:32:50,620

writtens on these vets that's so funny

735

00:32:54,660 --> 00:32:52,630

this morning but you've got to have a

736

00:32:58,020 --> 00:32:54,670

look at this stuff you have to watch fox

737

00:32:59,910 --> 00:32:58,030

news you have to embrace this stuff

738

00:33:02,190 --> 00:32:59,920

because where's this going to get us if

739

00:33:04,710 --> 00:33:02,200

we do this well then you will know that

740

00:33:06,840 --> 00:33:04,720

whatever they're saying you don't agree

741

00:33:09,030 --> 00:33:06,850

with because you are rational your

742

00:33:11,670 --> 00:33:09,040

artistic your creative your thoughtful

743

00:33:14,520 --> 00:33:11,680

you care about other people so if you're

744

00:33:18,180 --> 00:33:14,530

not at all sure what you truly believe

745

00:33:20,970 --> 00:33:18,190

tune into Murdoch newscom has the

746

00:33:23,370 --> 00:33:20,980

opposite of what you are that's Tim

747

00:33:26,910 --> 00:33:23,380

Ferguson's write a reply straight from

748

00:33:45,690 --> 00:33:26,920

the mouth bunga bunga or as we like to

749

00:33:55,580 --> 00:33:48,280

what we want is some more evidence

750

00:33:55,590 --> 00:34:02,029

hello this is Joe alabaster

751  
00:34:11,819 --> 00:34:08,419  
posted februari 18th 2016 on ABC net au

752  
00:34:16,200 --> 00:34:11,829  
low vaccination rates caused by parental

753  
00:34:18,480 --> 00:34:16,210  
suspicion says researcher a researcher

754  
00:34:21,329 --> 00:34:18,490  
from the university of sydney says

755  
00:34:23,609 --> 00:34:21,339  
suspicion rather than neglect is behind

756  
00:34:27,359 --> 00:34:23,619  
low vaccination rates on the new south

757  
00:34:29,129 --> 00:34:27,369  
wales north coast a recent National

758  
00:34:32,040 --> 00:34:29,139  
Health performance Authority report

759  
00:34:33,750 --> 00:34:32,050  
showed less than forty seven percent of

760  
00:34:35,550 --> 00:34:33,760  
five-year-olds living in the Mollom

761  
00:34:39,059 --> 00:34:35,560  
Bimby area of the Shire were fully

762  
00:34:41,490 --> 00:34:39,069  
immunized the rate was fifty percent for

763  
00:34:43,680 --> 00:34:41,500

two-year-olds and less than fifty four

764

00:34:46,889 --> 00:34:43,690

percent for one year old children in the

765

00:34:49,349 --> 00:34:46,899

postcode the Australian chief medical

766

00:34:51,839 --> 00:34:49,359

officer and all state and territory

767

00:34:54,329 --> 00:34:51,849

chief health officers agreed to a target

768

00:34:59,040 --> 00:34:54,339

of ninety-five percent of children to be

769

00:35:01,349 --> 00:34:59,050

fully immunized PhD candidate Katherine

770

00:35:03,630 --> 00:35:01,359

helps has interviewed parents in the

771

00:35:06,480 --> 00:35:03,640

Byron Shire who refused to immunize

772

00:35:08,760 --> 00:35:06,490

their children ms help said the

773

00:35:11,059 --> 00:35:08,770

situation in Byron was the result of a

774

00:35:14,220 --> 00:35:11,069

conscious decision making by parents

775

00:35:15,930 --> 00:35:14,230

quote they're very vigilant around the

776

00:35:19,319 --> 00:35:15,940

well-being of their children and what

777

00:35:21,930 --> 00:35:19,329

goes into them end quote she said quote

778

00:35:24,240 --> 00:35:21,940

when they look at a product like some of

779

00:35:26,280 --> 00:35:24,250

the vaccinations they have concerns

780

00:35:28,650 --> 00:35:26,290

about the product and they also have

781

00:35:30,150 --> 00:35:28,660

concerns about the transparency and the

782

00:35:32,130 --> 00:35:30,160

motivation of the people who are

783

00:35:34,530 --> 00:35:32,140

encouraging them very strongly to have

784

00:35:36,510 --> 00:35:34,540

that done they're not sure that the

785

00:35:39,300 --> 00:35:36,520

motivation necessarily comes from the

786

00:35:41,520 --> 00:35:39,310

best intentions for their child there is

787

00:35:45,690 --> 00:35:41,530

some concern about there being profit

788

00:35:47,910 --> 00:35:45,700

motive and quote health authorities have

789

00:35:49,800 --> 00:35:47,920

warned that low vaccination rates could

790

00:35:51,780 --> 00:35:49,810

leave the region ripe for an outbreak of

791

00:35:55,290 --> 00:35:51,790

diseases which have largely been

792

00:35:57,120 --> 00:35:55,300

eradicated in Australia dr. Vickie

793

00:35:59,309 --> 00:35:57,130

Shepherd from New South Wales health

794

00:36:01,589 --> 00:35:59,319

said the deadly respiratory disease

795

00:36:03,930 --> 00:36:01,599

diphtheria was still common in parts of

796

00:36:05,880 --> 00:36:03,940

Asia and the Pacific she said people

797

00:36:07,920 --> 00:36:05,890

entering Australia from those areas

798

00:36:11,460 --> 00:36:07,930

could carry the bacteria in on their

799

00:36:13,470 --> 00:36:11,470

skin quote it's probably only about five

800

00:36:14,850 --> 00:36:13,480

years ago that happened in Queensland

801  
00:36:17,400 --> 00:36:14,860  
when someone brought the

802  
00:36:20,010 --> 00:36:17,410  
bug back from overseas and quote dr.

803  
00:36:21,630 --> 00:36:20,020  
Shepherd said quote they weren't

804  
00:36:24,240 --> 00:36:21,640  
affected themselves because they were

805  
00:36:25,980 --> 00:36:24,250  
vaccinated but they were in contact with

806  
00:36:27,990 --> 00:36:25,990  
a young adult who had never been

807  
00:36:33,030 --> 00:36:28,000  
vaccinated and she died from diphtheria

808  
00:36:34,680 --> 00:36:33,040  
and quote last year the federal

809  
00:36:36,840 --> 00:36:34,690  
government announced that some welfare

810  
00:36:39,050 --> 00:36:36,850  
benefits would be denied people who

811  
00:36:42,330 --> 00:36:39,060  
refuse to immunize their children

812  
00:36:43,680 --> 00:36:42,340  
mullumbimby mother Heidi Robertson who

813  
00:36:46,440 --> 00:36:43,690

helped to form the Northern Rivers

814

00:36:48,690 --> 00:36:46,450

vaccination supporters group in 2013

815

00:36:52,200 --> 00:36:48,700

said she was hopeful the policy would

816

00:36:54,120 --> 00:36:52,210

eventually pay dividends quote we can

817

00:36:56,550 --> 00:36:54,130

only go on anecdotes that we've got from

818

00:36:58,260 --> 00:36:56,560

local immunization providers and there

819

00:37:00,120 --> 00:36:58,270

are lots and lots of phone calls coming

820

00:37:02,370 --> 00:37:00,130

in from parents finding out more

821

00:37:04,800 --> 00:37:02,380

information about the vaccinations and

822

00:37:07,470 --> 00:37:04,810

placing their kids on to these catch up

823

00:37:11,130 --> 00:37:07,480

schedules and quote she said quote

824

00:37:12,930 --> 00:37:11,140

that's very promising and quote miss

825

00:37:14,730 --> 00:37:12,940

Robertson said friends of hers from

826

00:37:16,650 --> 00:37:14,740

other parts of Australia were reluctant

827

00:37:20,700 --> 00:37:16,660

to visit the region which relies heavily

828

00:37:22,620 --> 00:37:20,710

on tourism quote they're absolutely

829

00:37:25,110 --> 00:37:22,630

astounded that less than one in two

830

00:37:27,480 --> 00:37:25,120

children are fully vaccinated here they

831

00:37:30,240 --> 00:37:27,490

don't understand it and quote she said

832

00:37:31,740 --> 00:37:30,250

quote in fact many of them say they

833

00:37:33,720 --> 00:37:31,750

wouldn't come for a holiday in this

834

00:37:38,040 --> 00:37:33,730

region because of that fact alone and

835

00:37:40,770 --> 00:37:38,050

quote the New South Wales opposition's

836

00:37:42,450 --> 00:37:40,780

health spokesman Walt's accord said the

837

00:37:44,640 --> 00:37:42,460

vaccination rates recorded around

838

00:37:48,180 --> 00:37:44,650

mullumbimby were usually associated with

839

00:37:49,830 --> 00:37:48,190

developing nations quote now that is

840

00:37:53,280 --> 00:37:49,840

irresponsible in a country like

841

00:37:55,230 --> 00:37:53,290

Australia and quote he said quote people

842

00:37:57,240 --> 00:37:55,240

in Africa line up to vaccinate their

843

00:37:59,550 --> 00:37:57,250

children but on the north coast of New

844

00:38:01,460 --> 00:37:59,560

South Wales people are not doing it and

845

00:38:03,650 --> 00:38:01,470

quote

846

00:38:06,080 --> 00:38:03,660

the New South Wales Health Minister

847

00:38:19,609 --> 00:38:06,090

Jillian Skinner has so far declined to

848

00:38:25,069 --> 00:38:23,130

hi this is Heidi Robertson from the

849

00:38:27,950 --> 00:38:25,079

Northern Rivers vaccination supporters

850

00:38:30,569 --> 00:38:27,960

we are a group of concerned citizens

851  
00:38:33,150 --> 00:38:30,579  
dedicated to promoting good science and

852  
00:38:36,269 --> 00:38:33,160  
common sense in our region the far north

853  
00:38:37,980 --> 00:38:36,279  
coast of New South Wales this area of

854  
00:38:41,009 --> 00:38:37,990  
famous for its natural beauty and

855  
00:38:44,609 --> 00:38:41,019  
relaxed lifestyle also has the lowest

856  
00:38:46,710 --> 00:38:44,619  
rates of vaccination in Australia we are

857  
00:38:49,140 --> 00:38:46,720  
out to change that by challenging the

858  
00:38:50,819 --> 00:38:49,150  
myths and misinformation and by

859  
00:38:54,120 --> 00:38:50,829  
providing good evidence based

860  
00:38:55,980 --> 00:38:54,130  
information to the community we'd love

861  
00:38:59,609 --> 00:38:55,990  
for you no matter where you are in the

862  
00:39:07,200 --> 00:38:59,619  
world to join our fight please visit our

863  
00:39:10,019 --> 00:39:07,210

webpage at ww nrvs info we also have a

864

00:39:14,339 --> 00:39:10,029

link there to our facebook page tweet us

865

00:39:16,950 --> 00:39:14,349

at in our faqs supporters that's vix and

866

00:39:19,589 --> 00:39:16,960

check us out on Wikipedia by searching

867

00:39:30,220 --> 00:39:19,599

for Northern Rivers vaccination

868

00:39:30,230 --> 00:39:36,329

Oh

869

00:39:41,910 --> 00:39:38,950

thank you for listening to the skeptic

870

00:39:44,410 --> 00:39:41,920

zone and thank you to jay alabaster and

871

00:39:46,839 --> 00:39:44,420

Michael Marshall and everybody else who

872

00:39:48,490 --> 00:39:46,849

helped me put this episode together I

873

00:39:52,210 --> 00:39:48,500

think we're going to have to investigate

874

00:39:55,839 --> 00:39:52,220

this science channel from the Royal

875

00:39:57,819 --> 00:39:55,849

Institution of Australia a bit more but

876

00:39:59,710 --> 00:39:57,829

before I go a big thank you to those

877

00:40:02,440 --> 00:39:59,720

people who are helping the skeptics

878

00:40:04,930 --> 00:40:02,450

owned by buying merchandise from mr.

879

00:40:08,079 --> 00:40:04,940

Katz origami jewelry there's a link at

880

00:40:12,670 --> 00:40:08,089

skeptic zone TV all those proceeds help

881

00:40:15,220 --> 00:40:12,680

keep the skeptic zone on air but for

882

00:40:17,140 --> 00:40:15,230

this week from a secret location which

883

00:40:23,890 --> 00:40:17,150

is a little bit echoing I must say this

884

00:40:25,510 --> 00:40:23,900

is Richard Saunders signing off you've

885

00:40:29,079 --> 00:40:25,520

been listening to the skeptics own

886

00:40:31,990 --> 00:40:29,089

podcast visit our website at wwc a

887

00:40:35,440 --> 00:40:32,000

petting zoo TV for contacts and archive

888

00:40:38,140 --> 00:40:35,450

of all episodes since 2008 and our

889

00:40:40,049 --> 00:40:38,150

online store please support the skeptic

890

00:40:43,210 --> 00:40:40,059

zone by following us on twitter at

891

00:40:46,839 --> 00:40:43,220

skeptic zone liking us on facebook and

892

00:40:49,030 --> 00:40:46,849

leaving a review on iTunes you can also

893

00:40:52,200 --> 00:40:49,040

show your support by subscribing via

894

00:40:54,970 --> 00:40:52,210

paypal for as little as 99 cents a week

895

00:40:56,589 --> 00:40:54,980

the skeptic zone is an independent

896

00:40:59,049 --> 00:40:56,599

production the views and opinions

897

00:41:00,670 --> 00:40:59,059

expressed on the skeptic zone and not

898

00:41:03,549 --> 00:41:00,680

necessarily those of Australian