

1
00:00:06,049 --> 00:00:11,870
welcome to the skeptic zone the podcast

2
00:00:09,109 --> 00:00:13,929
from Australia for science and reason

3
00:00:11,869 --> 00:00:16,989
[Music]

4
00:00:13,929 --> 00:00:16,989
[Applause]

5
00:00:17,149 --> 00:00:25,549
[Music]

6
00:00:23,109 --> 00:00:29,300
yes it's the skeptic zone podcast

7
00:00:25,550 --> 00:00:32,090
episode number 532 for the 30th of

8
00:00:29,300 --> 00:00:35,719
December 2018 richardsaunders here with

9
00:00:32,090 --> 00:00:39,109
you from the San Francisco Bay Area it's

10
00:00:35,719 --> 00:00:42,588
the last skeptic zone for 2018 next year

11
00:00:39,109 --> 00:00:46,789
2019 will mean the skeptic zone will be

12
00:00:42,588 --> 00:00:50,869
broadcast or net cast webcast in 12

13
00:00:46,789 --> 00:00:53,118
different years it's just ridiculous

14
00:00:50,869 --> 00:00:56,478
coming up on this week's show Heidi

15
00:00:53,118 --> 00:01:00,439
Robinson with an update on last week's

16
00:00:56,478 --> 00:01:03,018
stories revolving around the the 7:30

17
00:01:00,439 --> 00:01:06,259
report the ABC TV news program in

18
00:01:03,018 --> 00:01:06,950
Australia about the node jam no play

19
00:01:06,259 --> 00:01:09,618
laws

20
00:01:06,950 --> 00:01:12,228
well this update revolves around the

21
00:01:09,618 --> 00:01:14,420
reaction to that report and also a

22
00:01:12,228 --> 00:01:18,319
second update by Jane Hansen as well

23
00:01:14,420 --> 00:01:23,030
about the success of this sort of

24
00:01:18,319 --> 00:01:26,209
legislation no jab no pay and no Jeb no

25
00:01:23,030 --> 00:01:27,319
play looks like the anti-vaxxers are on

26
00:01:26,209 --> 00:01:29,568
the back foot

27
00:01:27,319 --> 00:01:32,569
following that it's a bit of good

28
00:01:29,569 --> 00:01:35,329
old-fashioned skepticism with a story I

29

00:01:32,569 --> 00:01:38,240
report about astrology remember that

30
00:01:35,328 --> 00:01:40,309
just yeah I remember astrology it's the

31
00:01:38,239 --> 00:01:42,228
good old days of skepticism and this

32
00:01:40,310 --> 00:01:43,789
comes to us from the pages of the

33
00:01:42,228 --> 00:01:45,798
skeptic magazine the journal from

34
00:01:43,789 --> 00:01:46,700
Australian skeptics it's a fascinating

35
00:01:45,799 --> 00:01:49,399
report

36
00:01:46,700 --> 00:01:51,829
I love poring through the back issues of

37
00:01:49,399 --> 00:01:53,868
the skeptic magazine and this is simply

38
00:01:51,828 --> 00:01:56,118
one of the thousands upon thousands of

39
00:01:53,868 --> 00:01:58,549
reports and interviews available to you

40
00:01:56,118 --> 00:02:02,269
at skeptics calm dot a you an

41
00:01:58,549 --> 00:02:04,909
interesting look at astrology from an

42
00:02:02,269 --> 00:02:07,638
astronomer and we have a report from the

43
00:02:04,909 --> 00:02:09,709

diet skeptic mandala Noble this week

44

00:02:07,638 --> 00:02:12,469

Mandy will be looking at the keto or

45

00:02:09,709 --> 00:02:14,209

ketogenic diet especially for those

46

00:02:12,469 --> 00:02:16,129

people who are looking to make New

47

00:02:14,209 --> 00:02:18,979

Year's Eve resolutions New Year's

48

00:02:16,129 --> 00:02:21,379

resolutions about another diet now

49

00:02:18,979 --> 00:02:23,239

thinking about the keto diet I'm not - I

50

00:02:21,379 --> 00:02:25,189

don't know too much about this diet so

51

00:02:23,240 --> 00:02:27,409

I'm looking forward to this myself the

52

00:02:25,189 --> 00:02:29,329

diet skeptic will tell you all about the

53

00:02:27,409 --> 00:02:32,000

research and the results of the

54

00:02:29,330 --> 00:02:34,040

ketogenic diet then to round off the

55

00:02:32,000 --> 00:02:36,769

show but luster

56

00:02:34,039 --> 00:02:38,810

last bit of a skeptic zone for 2018 bit

57

00:02:36,769 --> 00:02:41,989

of Internet nonsense with the Maynard

58
00:02:38,810 --> 00:02:45,670
and I reading out some of the crazy

59
00:02:41,989 --> 00:02:48,890
wacky things and heave axes say online

60
00:02:45,669 --> 00:02:51,858
and this sir was found at the the

61
00:02:48,889 --> 00:02:53,419
BuzzFeed website now before we get stuck

62
00:02:51,859 --> 00:02:56,359
into the show I've been told there's a

63
00:02:53,419 --> 00:02:59,298
skeptic camp coming up in Monterey

64
00:02:56,359 --> 00:03:02,599
California on the fifth the fifth of

65
00:02:59,299 --> 00:03:04,218
January pretty soon I've in the general

66
00:03:02,598 --> 00:03:07,219
area it's not out of the question I

67
00:03:04,218 --> 00:03:08,239
might be able to make it there no

68
00:03:07,219 --> 00:03:11,120
promises

69
00:03:08,239 --> 00:03:13,280
my timing here is a little bit uncertain

70
00:03:11,120 --> 00:03:15,289
at the moment anyway for more

71
00:03:13,280 --> 00:03:18,919
information about skeptic camp coming up

72
00:03:15,289 --> 00:03:21,078
in Monterey on the 5th of January check

73
00:03:18,919 --> 00:03:23,959
out this week's episode for the show

74
00:03:21,079 --> 00:03:28,010
notes but now it's time for me to run

75
00:03:23,959 --> 00:03:30,438
upstairs defrost a pizza and all I'm

76
00:03:28,009 --> 00:03:31,099
doing that I hope you enjoy the skeptic

77
00:03:30,438 --> 00:03:39,409
zone

78
00:03:31,099 --> 00:03:42,459
[Music]

79
00:03:39,409 --> 00:03:42,460
[Applause]

80
00:03:48,889 --> 00:04:03,059
it's the raw skeptic report with Heidi

81
00:03:52,860 --> 00:04:05,130
Robertson hello everyone Heidi Robertson

82
00:04:03,060 --> 00:04:11,150
from the Northern Rivers vaccination

83
00:04:05,129 --> 00:04:16,409
supporters from the Sunday Telegraph on

84
00:04:11,150 --> 00:04:24,439
Sunday December the 23rd 2018 by Jane

85
00:04:16,410 --> 00:04:28,140
Hansen no jab no wins as experts hit ABC

86

00:04:24,439 --> 00:04:33,089
probe acts policy applauded as 7:30 s

87
00:04:28,139 --> 00:04:36,930
claims ridiculed furious medical experts

88
00:04:33,089 --> 00:04:40,289
and parents have smashed the ABC's 730

89
00:04:36,930 --> 00:04:42,420
program for claiming no jab no play is

90
00:04:40,290 --> 00:04:45,720
excluding some children from early

91
00:04:42,420 --> 00:04:48,509
childhood education instead of leaving

92
00:04:45,720 --> 00:04:52,140
ant I've experienced secluded from

93
00:04:48,509 --> 00:04:54,689
society the no jab no player policy is

94
00:04:52,139 --> 00:04:58,019
directly responsible for saving lives

95
00:04:54,689 --> 00:05:01,410
and boosting falling immunization rates

96
00:04:58,019 --> 00:05:03,539
experts said adding vaccination is safe

97
00:05:01,410 --> 00:05:07,080
for children and parents have no reason

98
00:05:03,540 --> 00:05:09,000
to fear it meanwhile parents such as

99
00:05:07,079 --> 00:05:11,279
Catherine and Greg Hughes the parents of

100
00:05:09,000 --> 00:05:15,360

Riley Hughes who died of whooping cough

101

00:05:11,279 --> 00:05:17,129
at just four weeks of age in 2015 said

102

00:05:15,360 --> 00:05:20,580
they knew how it felt for their son to

103

00:05:17,129 --> 00:05:23,159
be excluded quote we do know how that

104

00:05:20,579 --> 00:05:26,430
feels because you know who won't be able

105

00:05:23,160 --> 00:05:28,430
to attend kindy next year Riley they

106

00:05:26,430 --> 00:05:33,350
said in a statement

107

00:05:28,430 --> 00:05:36,860
on Tuesdays ABC 7:30 mother Katharina

108

00:05:33,350 --> 00:05:39,979
Gorka claimed her youngest was a victim

109

00:05:36,860 --> 00:05:41,990
of the policy because quote because they

110

00:05:39,978 --> 00:05:44,500
have a set opinion on vaccinations and

111

00:05:41,990 --> 00:05:47,900
that's not going to change and quote

112

00:05:44,500 --> 00:05:51,288
quote it makes me feel like we're but

113

00:05:47,899 --> 00:05:54,758
secluded from society end quote

114

00:05:51,288 --> 00:05:58,699
miss Gorka told the 7:30 program

115
00:05:54,759 --> 00:06:01,340
Mullumbimby mother Jessica Goliath was

116
00:05:58,699 --> 00:06:03,110
furious only 50 percent of

117
00:06:01,339 --> 00:06:06,288
five-year-olds are vaccinated in her

118
00:06:03,110 --> 00:06:09,530
town quote I think my kids are at a

119
00:06:06,288 --> 00:06:11,569
disadvantage in my community your child

120
00:06:09,529 --> 00:06:13,489
might miss out on early education but my

121
00:06:11,569 --> 00:06:14,360
child could catch whooping cough and die

122
00:06:13,490 --> 00:06:18,710
end quote

123
00:06:14,360 --> 00:06:20,389
she said quote I think no job no play is

124
00:06:18,709 --> 00:06:23,029
the best the government can do to

125
00:06:20,389 --> 00:06:26,900
encourage parents not to follow the

126
00:06:23,029 --> 00:06:29,209
anti-vaxxer end end quote the grieving

127
00:06:26,899 --> 00:06:33,198
parents of Dana McCaffrey who died from

128
00:06:29,209 --> 00:06:36,649
whooping cough in 2009 also said no job

129
00:06:33,199 --> 00:06:39,169
no play was the catalyst for change Toni

130
00:06:36,649 --> 00:06:40,819
McCaffrey maintains her newborn picked

131
00:06:39,168 --> 00:06:43,098
up whooping cough when she dropped her

132
00:06:40,819 --> 00:06:46,399
older children at a daycare center that

133
00:06:43,098 --> 00:06:48,288
had an outbreak quote nothing has worked

134
00:06:46,399 --> 00:06:51,288
in the past to increase vaccination

135
00:06:48,288 --> 00:06:53,750
rates whereas no jab no play is steadily

136
00:06:51,288 --> 00:06:58,279
increasing rates end quote

137
00:06:53,750 --> 00:07:00,379
mrs. McCaffrey said 7:30 story suggested

138
00:06:58,279 --> 00:07:02,239
childcare centers in northern New South

139
00:07:00,379 --> 00:07:04,569
Wales were facing closure due to

140
00:07:02,240 --> 00:07:07,939
unvaccinated children being ineligible

141
00:07:04,569 --> 00:07:10,339
but a check of child care vacancies in

142
00:07:07,939 --> 00:07:13,098
northern New South Wales showed four

143

00:07:10,339 --> 00:07:15,288
centers in Mullumbimby were full and the

144
00:07:13,098 --> 00:07:17,990
fifth the Mullumbimby community

145
00:07:15,288 --> 00:07:19,810
preschool had vacancies only on a

146
00:07:17,990 --> 00:07:23,269
Thursday and Friday

147
00:07:19,810 --> 00:07:26,530
nearby Byron Bay had no vacancies at its

148
00:07:23,269 --> 00:07:29,029
five preschools or daycare centres

149
00:07:26,529 --> 00:07:31,459
Roxanne Elliot from the care for kids

150
00:07:29,029 --> 00:07:34,579
website which Maps child care vacancies

151
00:07:31,459 --> 00:07:37,689
australia-wide said the policy has had

152
00:07:34,579 --> 00:07:41,819
no negative effects anywhere else

153
00:07:37,689 --> 00:07:44,949
quote wait lists are still very strong

154
00:07:41,819 --> 00:07:48,430
some services are experiencing vacancies

155
00:07:44,949 --> 00:07:51,519
but only due to oversupply but there is

156
00:07:48,430 --> 00:07:52,090
no correlation to this and no job no

157
00:07:51,519 --> 00:07:56,529

play

158

00:07:52,089 --> 00:07:59,049

end quote she said dr. Andrew McDonald a

159

00:07:56,529 --> 00:08:00,929

Campbell town pediatrician and former

160

00:07:59,050 --> 00:08:03,370

New South Wales shadow health minister

161

00:08:00,930 --> 00:08:07,180

said while he was initially hesitant

162

00:08:03,370 --> 00:08:11,910

about no jab no play he had seen at work

163

00:08:07,180 --> 00:08:14,829

quote like magic in western Sydney

164

00:08:11,910 --> 00:08:18,910

Australian Medical Association president

165

00:08:14,829 --> 00:08:21,250

dr. Tony Bartone II said no job no play

166

00:08:18,910 --> 00:08:24,810

had worked where other measures had

167

00:08:21,250 --> 00:08:27,759

failed quote we would have preferred

168

00:08:24,810 --> 00:08:30,579

education and incentives rather than the

169

00:08:27,759 --> 00:08:33,729

big stick but all other measures had not

170

00:08:30,579 --> 00:08:35,949

worked and when misinformed parents are

171

00:08:33,729 --> 00:08:37,750

putting other children at risk measures

172
00:08:35,950 --> 00:08:42,039
need to be taken

173
00:08:37,750 --> 00:08:47,289
end quote he said and the following

174
00:08:42,038 --> 00:08:52,149
story comes to us today Sunday the 30th

175
00:08:47,289 --> 00:08:54,490
of December 2018 and it's another story

176
00:08:52,149 --> 00:09:01,120
from Jane Hanson from The Daily

177
00:08:54,490 --> 00:09:04,120
Telegraph quote 500 children a day catch

178
00:09:01,120 --> 00:09:08,830
up on vaccinations thanks to know jab

179
00:09:04,120 --> 00:09:10,899
law more than 500 children a day have

180
00:09:08,830 --> 00:09:14,680
caught up with their vaccinations since

181
00:09:10,899 --> 00:09:18,459
July the first thanks to new no job no

182
00:09:14,679 --> 00:09:20,819
pay changes government data obtained

183
00:09:18,460 --> 00:09:24,550
exclusively by The Sunday Telegraph

184
00:09:20,820 --> 00:09:27,129
shows 80,000 children have caught up in

185
00:09:24,549 --> 00:09:31,179
the five months between July the 1st and

186
00:09:27,129 --> 00:09:33,879
November the 30th the surge in numbers

187
00:09:31,179 --> 00:09:35,739
is a result of a change that reduces

188
00:09:33,879 --> 00:09:39,879
appearance fortnightly Family Tax

189
00:09:35,740 --> 00:09:42,759
Benefit Part A installments by about \$28

190
00:09:39,879 --> 00:09:46,350
per fortnight for each child that does

191
00:09:42,759 --> 00:09:50,250
not meet the immunization requirements

192
00:09:46,350 --> 00:09:51,500
the government gave the families of

193
00:09:50,250 --> 00:09:54,049
245,000

194
00:09:51,500 --> 00:09:57,529
children a sixty three day grace period

195
00:09:54,049 --> 00:10:00,019
to catch up on all shots and a third of

196
00:09:57,529 --> 00:10:04,429
those about eighty thousand children are

197
00:10:00,019 --> 00:10:06,259
now on schedule quote this means on

198
00:10:04,429 --> 00:10:09,469
average more than five hundred children

199
00:10:06,259 --> 00:10:11,000
a day who did not meet immunization

200

00:10:09,470 --> 00:10:15,290
requirements when this new policy

201
00:10:11,000 --> 00:10:16,879
started on 1st of July 2018 have taken

202
00:10:15,289 --> 00:10:21,250
action end quote

203
00:10:16,879 --> 00:10:24,169
a department spokesman said about

204
00:10:21,250 --> 00:10:27,409
110,000 did not respond within the grace

205
00:10:24,169 --> 00:10:31,279
period and a further forty thousand are

206
00:10:27,409 --> 00:10:32,750
still within a grace period the data

207
00:10:31,279 --> 00:10:35,929
shows that since the government

208
00:10:32,750 --> 00:10:41,679
introduced its initial no jab no paid

209
00:10:35,929 --> 00:10:44,989
policy on January the 1st 2016 almost

210
00:10:41,679 --> 00:10:47,259
250,000 children and their families have

211
00:10:44,990 --> 00:10:51,590
taken action to ensure they meet

212
00:10:47,259 --> 00:10:53,840
immunization requirements Australia now

213
00:10:51,590 --> 00:10:56,930
has the highest vaccination rate on

214
00:10:53,840 --> 00:10:59,089

record with ninety four point six two

215

00:10:56,929 --> 00:11:02,239

percent of children aged five years

216

00:10:59,089 --> 00:11:04,460

fully immunized up to point zero three

217

00:11:02,240 --> 00:11:05,440

percentage points since before the

218

00:11:04,460 --> 00:11:08,509

changes

219

00:11:05,440 --> 00:11:11,600

Tony McCaffrey who lost her baby Dana to

220

00:11:08,509 --> 00:11:13,490

whooping cough in 2009 when vaccination

221

00:11:11,600 --> 00:11:16,490

rates were sliding to dangerously low

222

00:11:13,490 --> 00:11:19,909

levels has supported the no jab no play

223

00:11:16,490 --> 00:11:21,620

pay policies because quote nothing else

224

00:11:19,909 --> 00:11:23,838

was working end quote

225

00:11:21,620 --> 00:11:26,839

quote the data shows the policies are

226

00:11:23,839 --> 00:11:28,910

working and saving lives more children

227

00:11:26,839 --> 00:11:31,400

are protected and this makes childcare

228

00:11:28,909 --> 00:11:33,259

and preschool safer and healthier for

229

00:11:31,399 --> 00:11:36,110
everyone end quote

230

00:11:33,259 --> 00:11:38,059
she said Catherine and Greg Hughes who

231

00:11:36,110 --> 00:11:42,800
lost their baby son Riley to whooping

232

00:11:38,059 --> 00:11:45,588
cough in 2015 agreed quote the numbers

233

00:11:42,799 --> 00:11:46,699
are phenomenal we are thrilled that so

234

00:11:45,589 --> 00:11:49,100
many more children are getting

235

00:11:46,700 --> 00:11:51,920
vaccinated thanks to the no jab no pay

236

00:11:49,100 --> 00:11:54,440
policy this policy is making a real

237

00:11:51,919 --> 00:11:56,360
difference to children's lives ensuring

238

00:11:54,440 --> 00:11:59,390
they are protected against diseases that

239

00:11:56,360 --> 00:12:01,430
could potentially kill them end quote

240

00:11:59,389 --> 00:12:05,039
mrs. Hughes said

241

00:12:01,429 --> 00:12:07,138
quote ideally education would be enough

242

00:12:05,039 --> 00:12:09,689
to convince all parents that vaccination

243
00:12:07,139 --> 00:12:12,629
is the right thing but with the global

244
00:12:09,690 --> 00:12:15,899
rise of anti vaccination and anti

245
00:12:12,629 --> 00:12:20,930
science ideology we think strong policy

246
00:12:15,899 --> 00:12:24,028
like no jab no pay is needed end quote

247
00:12:20,929 --> 00:12:26,219
New South Wales has also achieved its

248
00:12:24,028 --> 00:12:28,289
highest vaccination rates with the

249
00:12:26,220 --> 00:12:31,410
figures for children fully vaccinated at

250
00:12:28,289 --> 00:12:37,068
five years of age increasing by over 6%

251
00:12:31,409 --> 00:12:40,469
from 2010 to 2018

252
00:12:37,068 --> 00:12:43,438
Isabel born Ellis was born ten weeks

253
00:12:40,470 --> 00:12:46,550
premature in August 2017

254
00:12:43,438 --> 00:12:51,088
djao mother suffering preeclampsia

255
00:12:46,549 --> 00:12:54,149
Isabel weighed a tiny 900 grams and as a

256
00:12:51,089 --> 00:12:56,519
result her parents Katie and Chris have

257

00:12:54,149 --> 00:12:59,879
always made sure she is up-to-date with

258
00:12:56,519 --> 00:13:02,100
her vaccines quote I've always been a

259
00:12:59,879 --> 00:13:04,560
believer and made sure she is up to date

260
00:13:02,100 --> 00:13:07,350
because she was so little and we wanted

261
00:13:04,559 --> 00:13:09,899
to keep her protected she'll have her 18

262
00:13:07,350 --> 00:13:12,990
months shots in February end quote

263
00:13:09,899 --> 00:13:16,049
she said increasing activity of anti

264
00:13:12,990 --> 00:13:17,879
vaccine is online has prompted the New

265
00:13:16,049 --> 00:13:20,278
South Wales healthcare Complaints

266
00:13:17,879 --> 00:13:23,039
Commission to issue a new warning about

267
00:13:20,278 --> 00:13:25,740
anti vaccination campaigners quote and

268
00:13:23,039 --> 00:13:28,559
the potential risks that such persons

269
00:13:25,740 --> 00:13:31,379
and associations pose to the public

270
00:13:28,559 --> 00:13:33,539
health and safety health consumers

271
00:13:31,379 --> 00:13:36,360

should be particularly wary of persons

272

00:13:33,539 --> 00:13:39,240
claiming to be experts or to have

273

00:13:36,360 --> 00:13:42,750
conducted research into the safety and

274

00:13:39,240 --> 00:13:45,299
efficacy of vaccines or immunization

275

00:13:42,750 --> 00:13:48,240
programs in circumstances where they do

276

00:13:45,299 --> 00:13:50,490
not hold relevant medical qualifications

277

00:13:48,240 --> 00:13:53,879
and are not a registered health

278

00:13:50,490 --> 00:13:57,899
practitioner end quote the December 18

279

00:13:53,879 --> 00:14:01,230
warning reads so that's great news a lot

280

00:13:57,899 --> 00:14:04,379
more kids have now been caught up on

281

00:14:01,230 --> 00:14:05,639
their vaccinations and as a result the

282

00:14:04,379 --> 00:14:10,730
community is

283

00:14:05,639 --> 00:14:13,840
safer and for now that's all for me and

284

00:14:10,730 --> 00:14:20,509
I'll catch you next time bye for now

285

00:14:13,840 --> 00:14:20,509
[Music]

286
00:14:21,169 --> 00:14:25,919
you're not gonna say Bigfoot's BS but

287
00:14:24,000 --> 00:14:27,419
the chupacabra is totally the result of

288
00:14:25,919 --> 00:14:30,029
top-secret government genetic

289
00:14:27,419 --> 00:14:32,429
experiments on remote island taking

290
00:14:30,029 --> 00:14:33,929
medical advice from iguanas Paltrow like

291
00:14:32,429 --> 00:14:36,389
steaming your lady parts and putting

292
00:14:33,929 --> 00:14:38,759
Jade eggs all up in net is a great way

293
00:14:36,389 --> 00:14:41,009
to improve your health police from

294
00:14:38,759 --> 00:14:43,620
around the world regularly use psychics

295
00:14:41,009 --> 00:14:46,289
to solve crimes they just don't talk

296
00:14:43,620 --> 00:14:48,840
about it spontaneous human combustion is

297
00:14:46,289 --> 00:14:50,699
for sure a real thing I've read all

298
00:14:48,840 --> 00:14:54,450
about it on the Internet and I worry

299
00:14:50,700 --> 00:14:55,860
someday it's going to happen to me we

300
00:14:54,450 --> 00:14:58,290
all have friends and family who believe

301
00:14:55,860 --> 00:15:00,180
these things and much more well if

302
00:14:58,289 --> 00:15:01,949
you're a rational thinker who is tired

303
00:15:00,179 --> 00:15:03,870
of arguing on social media and never

304
00:15:01,950 --> 00:15:06,450
getting anywhere we have a solution for

305
00:15:03,870 --> 00:15:08,879
you join the guerrilla skepticism on

306
00:15:06,450 --> 00:15:11,310
wikipedia team and we will teach you how

307
00:15:08,879 --> 00:15:13,230
to add reliable scientific and skeptical

308
00:15:11,309 --> 00:15:16,379
information to the world's number-one

309
00:15:13,230 --> 00:15:18,330
source of information Wikipedia we write

310
00:15:16,379 --> 00:15:20,879
new articles and improve existing ones

311
00:15:18,330 --> 00:15:23,040
we remove pseudoscience paranormal and

312
00:15:20,879 --> 00:15:25,200
altmed claims substituting the actual

313
00:15:23,039 --> 00:15:27,899
facts and we operate in many languages

314

00:15:25,200 --> 00:15:30,240
we've already reached tens of millions

315
00:15:27,899 --> 00:15:32,250
of people searching for information but

316
00:15:30,240 --> 00:15:35,310
as you can imagine we can never do

317
00:15:32,250 --> 00:15:38,129
enough so please join us all you need is

318
00:15:35,309 --> 00:15:40,679
a PC a Facebook account and a desire to

319
00:15:38,129 --> 00:15:42,360
help educate the planet in fact you'll

320
00:15:40,679 --> 00:15:47,089
be educating the world while you sleep

321
00:15:42,360 --> 00:15:50,490
contact us at G is owt at gmail.com

322
00:15:47,090 --> 00:15:53,120
guerrilla skepticism the time is now

323
00:15:50,490 --> 00:15:57,129
music by purple planet calm

324
00:15:53,120 --> 00:15:57,129
[Music]

325
00:16:01,750 --> 00:16:08,620
now some of you may know the wonders the

326
00:16:04,559 --> 00:16:11,889
magic the untold pleasure of jet lag

327
00:16:08,620 --> 00:16:15,250
which I suffer from when I travel across

328
00:16:11,889 --> 00:16:18,429

the Pacific so the other night unable to

329

00:16:15,250 --> 00:16:21,309

sleep I tuned in to Sydney radio and

330

00:16:18,429 --> 00:16:26,739

came across the late-night session on

331

00:16:21,309 --> 00:16:28,750

radio 2gb of an astrologer in this case

332

00:16:26,740 --> 00:16:29,379

Milton black now Milton black has been a

333

00:16:28,750 --> 00:16:31,899

year

334

00:16:29,379 --> 00:16:34,899

prominent astrology in Australia for

335

00:16:31,899 --> 00:16:36,459

decades I think you'd have to say I once

336

00:16:34,899 --> 00:16:41,350

cross swords with Milton black on

337

00:16:36,460 --> 00:16:43,660

national TV maybe 10 years ago and well

338

00:16:41,350 --> 00:16:45,570

I'll had a link in this week's show

339

00:16:43,659 --> 00:16:48,370

notes you can see the video for yourself

340

00:16:45,570 --> 00:16:51,190

but it inspired me to dive into the

341

00:16:48,370 --> 00:16:53,200

pages at the skeptic magazine and do a

342

00:16:51,190 --> 00:16:55,720

search on astrology and I came up with a

343
00:16:53,200 --> 00:16:59,920
very interesting article printed way

344
00:16:55,720 --> 00:17:02,710
back in September 1984 and this is from

345
00:16:59,919 --> 00:17:04,930
volume four number three of the skeptic

346
00:17:02,710 --> 00:17:06,699
again I will link to this issue in the

347
00:17:04,930 --> 00:17:09,310
show notes because all the back issues

348
00:17:06,699 --> 00:17:11,589
of the skeptic bar the last year going

349
00:17:09,309 --> 00:17:15,609
back to 1981 are available for you

350
00:17:11,588 --> 00:17:18,188
online to peruse and enjoy for free this

351
00:17:15,609 --> 00:17:23,729
item appears on page 23 and it's by

352
00:17:18,189 --> 00:17:26,730
Philip Ayane in astronomers view on

353
00:17:23,730 --> 00:17:26,730
astrology

354
00:17:27,130 --> 00:17:32,230
one of the impressive things about

355
00:17:28,929 --> 00:17:35,650
astrology today is the extent to which

356
00:17:32,230 --> 00:17:38,169
it pervades our culture more people know

357
00:17:35,650 --> 00:17:41,019
their star sign then know their blood

358
00:17:38,169 --> 00:17:42,370
type and you can find zodiac motifs on

359
00:17:41,019 --> 00:17:45,879
almost anything

360
00:17:42,369 --> 00:17:50,319
for example the ANZ Bank in Australia

361
00:17:45,880 --> 00:17:53,340
has advertised a Zodiac savers plan to

362
00:17:50,319 --> 00:17:57,189
some this is just amusing but too many

363
00:17:53,339 --> 00:17:59,109
astrology is the Space Age science the

364
00:17:57,190 --> 00:18:01,750
guide to their personal lives and

365
00:17:59,109 --> 00:18:04,240
business several companies have been

366
00:18:01,750 --> 00:18:06,730
reported to use horoscopes to find the

367
00:18:04,240 --> 00:18:10,120
optimum time to introduce a new product

368
00:18:06,730 --> 00:18:12,819
into the marketplace or to judge what

369
00:18:10,119 --> 00:18:15,129
job a particular person might be best

370
00:18:12,819 --> 00:18:17,829
suited for a kidnapping trial in

371

00:18:15,130 --> 00:18:20,530
Cincinnati several years ago the defense

372
00:18:17,829 --> 00:18:23,558
attorneys consulted astrologists for

373
00:18:20,529 --> 00:18:26,859
guidance with the selection of a jury in

374
00:18:23,558 --> 00:18:28,990
a Florida rape case there was an attempt

375
00:18:26,859 --> 00:18:33,099
to have the charges dismissed on the

376
00:18:28,990 --> 00:18:35,890
grounds unfavorable celestial influences

377
00:18:33,099 --> 00:18:38,829
were at the root of the crime how you

378
00:18:35,890 --> 00:18:41,470
react to these stories no doubt depends

379
00:18:38,829 --> 00:18:44,048
to some degree on whether or not you see

380
00:18:41,470 --> 00:18:47,079
astrology as valid or invalid or

381
00:18:44,048 --> 00:18:48,970
somewhere in between scientists have

382
00:18:47,079 --> 00:18:52,569
been inclined to ignore astrology or

383
00:18:48,970 --> 00:18:56,339
dismiss it as nonsense but really we

384
00:18:52,569 --> 00:18:59,349
should ask might astrology in fact work

385
00:18:56,339 --> 00:19:02,168

have astrologists found fundamental laws

386

00:18:59,349 --> 00:19:05,500

governing our behavior what is the

387

00:19:02,169 --> 00:19:08,590

mechanism if any producing the effects

388

00:19:05,500 --> 00:19:11,349

claimed astrology is a system whereby

389

00:19:08,589 --> 00:19:14,349

the patterns of planets in the sky can

390

00:19:11,349 --> 00:19:18,500

be interpreted to reveal personality and

391

00:19:14,349 --> 00:19:21,109

predict events we perhaps all know the

392

00:19:18,500 --> 00:19:23,990

if you are born with the same Capricorn

393

00:19:21,109 --> 00:19:27,609

you are said to be neat methodical and

394

00:19:23,990 --> 00:19:30,440

have an extreme capacity for hard work

395

00:19:27,609 --> 00:19:33,049

planetary patterns are also alleged to

396

00:19:30,440 --> 00:19:36,130

yield information about the life of a

397

00:19:33,049 --> 00:19:39,639

business a building for a whole nation

398

00:19:36,130 --> 00:19:42,580

recently John Miller of New York City

399

00:19:39,640 --> 00:19:46,100

suggested a relationship between

400
00:19:42,579 --> 00:19:50,149
transits by the moon of Sirius the dog

401
00:19:46,099 --> 00:19:54,799
star and the enactment there of the dog

402
00:19:50,150 --> 00:19:58,400
litter law the so called pooper scooper

403
00:19:54,799 --> 00:20:00,980
statute the typical natal horoscope maps

404
00:19:58,400 --> 00:20:03,350
for a specific time of birth and

405
00:20:00,980 --> 00:20:05,809
location the positions of the planets

406
00:20:03,349 --> 00:20:09,259
with respect to the signs of the zodiac

407
00:20:05,809 --> 00:20:12,879
and the twelve houses the horoscope

408
00:20:09,259 --> 00:20:15,769
analysis is carried out by combining or

409
00:20:12,880 --> 00:20:19,190
synthesizing of the many various

410
00:20:15,769 --> 00:20:21,200
indicators of the chart the astrology

411
00:20:19,190 --> 00:20:23,360
might look at the distribution of the

412
00:20:21,200 --> 00:20:26,180
planets around the chart the occurrence

413
00:20:23,359 --> 00:20:29,329
of the planets and the cardinal mutable

414
00:20:26,180 --> 00:20:31,910
or fixed signs the ascendant sign the

415
00:20:29,329 --> 00:20:33,799
Sun sign the moon sign other planets in

416
00:20:31,910 --> 00:20:36,470
the signs planets and the astrological

417
00:20:33,799 --> 00:20:39,169
houses the angular relationships or

418
00:20:36,470 --> 00:20:41,900
aspects of the planets hypothetical

419
00:20:39,170 --> 00:20:43,640
planets and a few other things if all

420
00:20:41,900 --> 00:20:46,730
the chart factors that have been

421
00:20:43,640 --> 00:20:51,080
produced were to be included a few

422
00:20:46,730 --> 00:20:53,390
thousand million it would take about 300

423
00:20:51,079 --> 00:20:55,669
kilometres of computer printout to list

424
00:20:53,390 --> 00:20:57,759
them the interpretation of all this

425
00:20:55,670 --> 00:21:00,890
information means yet another matter

426
00:20:57,759 --> 00:21:02,900
astrologers often do not agree with one

427
00:21:00,890 --> 00:21:05,330
another about the factors in the chart

428

00:21:02,900 --> 00:21:08,810
there are no Maxwell's equations of

429
00:21:05,329 --> 00:21:12,240
astrology all of this bears little

430
00:21:08,809 --> 00:21:16,119
resemblance to astronomy

431
00:21:12,240 --> 00:21:19,419
astronomy is a science it has most

432
00:21:16,119 --> 00:21:21,398
precise descriptions and the evidence of

433
00:21:19,419 --> 00:21:21,970
its success in seeking the secrets of

434
00:21:21,398 --> 00:21:24,548
the universe

435
00:21:21,970 --> 00:21:26,350
is there for all to see through

436
00:21:24,548 --> 00:21:28,808
astronomy and physics and related

437
00:21:26,349 --> 00:21:29,859
technologies we have sampled and

438
00:21:28,808 --> 00:21:33,069
scrutinized

439
00:21:29,859 --> 00:21:35,288
distant planets and their moons we know

440
00:21:33,069 --> 00:21:37,898
our sign as a garden-variety star like

441
00:21:35,288 --> 00:21:40,808
billions of others making up the clouds

442
00:21:37,898 --> 00:21:43,359

of the Milky Way all of the stars

443

00:21:40,808 --> 00:21:46,408

contain the same chemical elements and

444

00:21:43,359 --> 00:21:49,240

operate with the same physics

445

00:21:46,409 --> 00:21:52,179

astronomers have examined great clouds

446

00:21:49,240 --> 00:21:54,370

of hydrogen where the stars are born the

447

00:21:52,179 --> 00:21:56,679

debris is left over when stars explode

448

00:21:54,369 --> 00:21:59,349

near the end of their lifetimes and have

449

00:21:56,679 --> 00:22:02,440

gone on to find there is galaxy after

450

00:21:59,349 --> 00:22:05,528

galaxy after distant galaxies like our

451

00:22:02,440 --> 00:22:08,558

own Milky Way these marvelous truths are

452

00:22:05,528 --> 00:22:10,839

not self-evident but come only after

453

00:22:08,558 --> 00:22:13,599

hundreds of years of very hard work and

454

00:22:10,839 --> 00:22:16,569

it has required thousands of individuals

455

00:22:13,599 --> 00:22:18,428

trying new ideas and curious about

456

00:22:16,569 --> 00:22:21,398

nature making mistakes

457
00:22:18,429 --> 00:22:24,340
finding new information adopting new

458
00:22:21,398 --> 00:22:26,639
viewpoints in order to understand

459
00:22:24,339 --> 00:22:30,339
something about how the universe behaves

460
00:22:26,640 --> 00:22:32,528
on the other hand the astrologers appear

461
00:22:30,339 --> 00:22:34,808
to have uncritically adopted any

462
00:22:32,528 --> 00:22:37,509
combination or permutation of factors

463
00:22:34,808 --> 00:22:40,599
they could think of in a horoscope

464
00:22:37,509 --> 00:22:43,599
without any appeal to evidence they have

465
00:22:40,599 --> 00:22:46,898
not appreciated how we as fallible

466
00:22:43,599 --> 00:22:50,250
humans are inaccurate biased observers

467
00:22:46,898 --> 00:22:53,798
of the world it is not adequate to trust

468
00:22:50,250 --> 00:22:56,819
intuition or our impressions of things

469
00:22:53,798 --> 00:22:59,470
we do need experiment and evidence a

470
00:22:56,819 --> 00:23:02,519
number of astrologers have wanted at

471
00:22:59,470 --> 00:23:05,440
least a scientific origin for astrology

472
00:23:02,519 --> 00:23:07,778
mark Edmund Jones has argued that

473
00:23:05,440 --> 00:23:09,970
astrology arose empirically when man

474
00:23:07,778 --> 00:23:13,148
began to observe correspondence between

475
00:23:09,970 --> 00:23:16,058
the events in his life and seasons and

476
00:23:13,148 --> 00:23:18,339
celestial phenomena the historical

477
00:23:16,058 --> 00:23:21,190
record shows astrology beginning about

478
00:23:18,339 --> 00:23:24,490
5000 years ago in Mesopotamia then

479
00:23:21,190 --> 00:23:26,529
astrology consisted of very simple

480
00:23:24,490 --> 00:23:29,319
about the appearance of the moon and the

481
00:23:26,529 --> 00:23:31,750
planets in the sky but if the sky is

482
00:23:29,319 --> 00:23:34,539
bright when the new moon appears the

483
00:23:31,750 --> 00:23:37,299
year will be good end quote such sayings

484
00:23:34,539 --> 00:23:40,450
were only a minor part of a very

485

00:23:37,299 --> 00:23:43,058
superstitious culture where any event in

486
00:23:40,450 --> 00:23:46,720
nature of almost any sort was read as a

487
00:23:43,058 --> 00:23:48,549
potent of some future event people

488
00:23:46,720 --> 00:23:51,130
looked for meaning in the migration of

489
00:23:48,549 --> 00:23:54,759
animals storms patterns of animal

490
00:23:51,130 --> 00:23:57,700
entrails patterns in flour or oil thrown

491
00:23:54,759 --> 00:24:01,299
into an urn of water like reading the

492
00:23:57,700 --> 00:24:05,440
tea leaves was this empirical consider

493
00:24:01,299 --> 00:24:08,109
the typical birth omen quote if a woman

494
00:24:05,440 --> 00:24:10,890
gives birth to an elephant the land will

495
00:24:08,109 --> 00:24:14,019
be laid to waste unquote

496
00:24:10,890 --> 00:24:16,750
surely this and similar omens including

497
00:24:14,019 --> 00:24:19,779
those astrological are not based on

498
00:24:16,750 --> 00:24:21,579
observable fact as far as can be

499
00:24:19,779 --> 00:24:24,000

determined there is no recorded

500

00:24:21,579 --> 00:24:26,678

historical evidence to suggest any

501

00:24:24,000 --> 00:24:30,369

astrological tenants were originally

502

00:24:26,679 --> 00:24:32,530

empirical a problem for the scientists

503

00:24:30,369 --> 00:24:35,889

has been trying to understand what

504

00:24:32,529 --> 00:24:38,410

plausible physical mechanism could

505

00:24:35,890 --> 00:24:41,470

possibly produce the astrological

506

00:24:38,410 --> 00:24:44,940

effects astrologers have occasionally

507

00:24:41,470 --> 00:24:47,289

dropped vague allusions to gravity or

508

00:24:44,940 --> 00:24:50,558

electromagnetic radiation of some

509

00:24:47,289 --> 00:24:52,990

undiscovered kind as sources gravity

510

00:24:50,558 --> 00:24:55,359

seems unlikely the pull of the doctor in

511

00:24:52,990 --> 00:24:58,058

the delivery room is stronger than most

512

00:24:55,359 --> 00:25:00,669

planets and the astrologist certainly do

513

00:24:58,058 --> 00:25:04,178

not speak of quote inverse squares in

514
00:25:00,670 --> 00:25:06,580
quote effects radiation doesn't seem

515
00:25:04,179 --> 00:25:08,910
likely either unless you want to add the

516
00:25:06,579 --> 00:25:11,678
delivery room lights in the chart

517
00:25:08,910 --> 00:25:14,800
indicators for they are far stronger

518
00:25:11,679 --> 00:25:17,890
than planetary radiation nor does

519
00:25:14,799 --> 00:25:20,259
particle radiation appear to correlate

520
00:25:17,890 --> 00:25:22,570
with astrological effects the

521
00:25:20,259 --> 00:25:25,190
astrologist seem to be stuck with a

522
00:25:22,569 --> 00:25:27,618
quote missing link in quote

523
00:25:25,190 --> 00:25:30,649
the crucial question however is whether

524
00:25:27,618 --> 00:25:34,428
or not natal horoscopes fit the lives of

525
00:25:30,648 --> 00:25:36,168
people first two interesting examples

526
00:25:34,429 --> 00:25:38,538
for astrologers at work

527
00:25:36,169 --> 00:25:41,840
to quote an anecdote from a recent

528
00:25:38,538 --> 00:25:44,329
astrology text one prominent astrologer

529
00:25:41,839 --> 00:25:46,249
just having impressed a client with an

530
00:25:44,329 --> 00:25:48,618
accurate description of what was going

531
00:25:46,249 --> 00:25:50,929
on in her life discovered she had been

532
00:25:48,618 --> 00:25:53,689
using the wrong chart one for a

533
00:25:50,929 --> 00:25:56,210
different client astrologers frequently

534
00:25:53,690 --> 00:25:58,429
study the lives of famous people Winston

535
00:25:56,210 --> 00:26:01,519
Churchill is a good example of someone

536
00:25:58,429 --> 00:26:04,070
about whom a great deal astrological has

537
00:26:01,519 --> 00:26:06,489
been written especially with regard to

538
00:26:04,069 --> 00:26:09,220
the timing of events in his life

539
00:26:06,489 --> 00:26:14,179
unfortunately for a long while

540
00:26:09,220 --> 00:26:17,389
Churchill's birth time was unknown AGS

541
00:26:14,179 --> 00:26:20,960
Norris who did much of his work used a

542

00:26:17,388 --> 00:26:23,808
chart rigorously recertified by several

543
00:26:20,960 --> 00:26:26,119
methods ie the birth time is inferred

544
00:26:23,808 --> 00:26:29,148
from astrological correspondence with

545
00:26:26,118 --> 00:26:31,939
documented events of the predicted

546
00:26:29,148 --> 00:26:34,028
ascendant Norris wrote hope if it were

547
00:26:31,940 --> 00:26:37,009
proved wrong which is almost

548
00:26:34,028 --> 00:26:38,659
inconceivable the blow to directional

549
00:26:37,009 --> 00:26:41,839
astrology would be a serious one

550
00:26:38,659 --> 00:26:43,720
important subsequently the birth time of

551
00:26:41,839 --> 00:26:47,388
Churchill was discovered and published

552
00:26:43,720 --> 00:26:49,639
the rectified time was about two and a

553
00:26:47,388 --> 00:26:51,408
half hours too late moreover at least

554
00:26:49,638 --> 00:26:55,758
half a dozen rectifications had been

555
00:26:51,409 --> 00:26:59,090
published none of them identical all of

556
00:26:55,759 --> 00:27:00,679

them wrong astrological personality

557

00:26:59,089 --> 00:27:04,038
descriptions are usually not very

558

00:27:00,679 --> 00:27:06,889
specific experiments by psychologists

559

00:27:04,038 --> 00:27:08,598
show people are inclined to believe any

560

00:27:06,888 --> 00:27:11,209
horoscope if they are told it was

561

00:27:08,598 --> 00:27:15,378
especially prepared for them to

562

00:27:11,210 --> 00:27:16,940
illustrate this in April 1968 Michelle

563

00:27:15,378 --> 00:27:19,759
goir keelin placed an ad in a magazine

564

00:27:16,940 --> 00:27:23,419
offering a free horoscope and analysis

565

00:27:19,759 --> 00:27:25,700
to anyone who would write in he sent the

566

00:27:23,419 --> 00:27:27,950
identical computer horoscope to each

567

00:27:25,700 --> 00:27:30,109
respondent with the questionnaire

568

00:27:27,950 --> 00:27:34,460
soliciting comments on the quality of

569

00:27:30,108 --> 00:27:36,918
the analysis of 150 replies 94 found the

570

00:27:34,460 --> 00:27:38,220
fake horoscope accurately described

571
00:27:36,919 --> 00:27:40,320
their character

572
00:27:38,220 --> 00:27:43,409
there are personal problems and the

573
00:27:40,319 --> 00:27:45,569
cycles of events in their life 90 found

574
00:27:43,409 --> 00:27:48,539
the accuracy confirmed by family and

575
00:27:45,569 --> 00:27:51,418
friends the wrong horoscopes into each

576
00:27:48,538 --> 00:27:54,538
person was the birthdate of a doctor

577
00:27:51,419 --> 00:27:56,780
pre-op a notorious criminal who had

578
00:27:54,538 --> 00:27:59,548
murdered several dozen people and

579
00:27:56,779 --> 00:28:01,168
dissolved their bodies in life

580
00:27:59,548 --> 00:28:03,450
it is one of the most common

581
00:28:01,169 --> 00:28:06,720
associations in traditional astrology

582
00:28:03,450 --> 00:28:09,808
that occupation personality traits and

583
00:28:06,720 --> 00:28:13,740
physical characteristics vary according

584
00:28:09,808 --> 00:28:16,288
to sun signs it is their easy to check

585
00:28:13,740 --> 00:28:20,130
up on this claim for example according

586
00:28:16,288 --> 00:28:22,220
to Margaret hone an Aries person is

587
00:28:20,130 --> 00:28:24,200
expected to have several characteristics

588
00:28:22,220 --> 00:28:27,720
including red hair

589
00:28:24,200 --> 00:28:30,269
Raja Culver gathered a sample of three

590
00:28:27,720 --> 00:28:32,279
hundred redhead individuals to see if

591
00:28:30,269 --> 00:28:35,879
most of them might have been born under

592
00:28:32,279 --> 00:28:38,460
Aries and they weren't he found their

593
00:28:35,880 --> 00:28:41,400
birth signs to be about equally divided

594
00:28:38,460 --> 00:28:44,340
between all twelve zodiacal signs the

595
00:28:41,400 --> 00:28:46,230
study of GA Tyson of ten thousand three

596
00:28:44,339 --> 00:28:48,808
hundred thirteen university graduates

597
00:28:46,230 --> 00:28:51,779
over a 10-year period examined the

598
00:28:48,808 --> 00:28:55,259
relationship between date of birth and

599

00:28:51,779 --> 00:28:58,200
career no relationship between birth

600
00:28:55,259 --> 00:29:00,259
date and Korea was found other studies

601
00:28:58,200 --> 00:29:02,700
comparing standardized personality

602
00:29:00,259 --> 00:29:05,490
inventories were of sun-sign estimates

603
00:29:02,700 --> 00:29:09,150
shown no significant correlations

604
00:29:05,490 --> 00:29:10,859
nor do supposedly incompatible science

605
00:29:09,150 --> 00:29:13,730
show up in marriage or divorce

606
00:29:10,859 --> 00:29:16,798
statistics a few weeks ago at the

607
00:29:13,730 --> 00:29:19,288
University of Virginia we tested an

608
00:29:16,798 --> 00:29:22,500
astrologer John McColl who claimed an

609
00:29:19,288 --> 00:29:24,359
80% success rate at distinguishing the

610
00:29:22,500 --> 00:29:26,788
correct horoscopes for an individual

611
00:29:24,359 --> 00:29:29,729
from three false ones on the basis of

612
00:29:26,788 --> 00:29:32,190
observed physical characteristics this

613
00:29:29,730 --> 00:29:34,140

was a double-blind test and no one knew

614

00:29:32,190 --> 00:29:36,750

the correct answers until after the

615

00:29:34,140 --> 00:29:39,210

experiment had been performed for twenty

616

00:29:36,750 --> 00:29:42,150

eight subjects mr. McCall was right only

617

00:29:39,210 --> 00:29:44,600

seven times just what is to be expected

618

00:29:42,150 --> 00:29:47,400

by chance

619

00:29:44,599 --> 00:29:50,189

finally one of the most comprehensive

620

00:29:47,400 --> 00:29:53,400

studies to date is an elaborate

621

00:29:50,190 --> 00:29:56,549

investigation of New York's suicides by

622

00:29:53,400 --> 00:29:59,340

astrologer Norah Press and several

623

00:29:56,549 --> 00:30:01,799

colleagues suicides were chosen because

624

00:29:59,339 --> 00:30:05,339

they could give a well-defined event

625

00:30:01,799 --> 00:30:08,730

time and it is such an extreme personal

626

00:30:05,339 --> 00:30:11,329

action so some tendency towards suicide

627

00:30:08,730 --> 00:30:14,579

should appear in their birth chart

628
00:30:11,329 --> 00:30:18,089
approximately 100,000 different factors

629
00:30:14,579 --> 00:30:21,119
were examined for the sample of 311

630
00:30:18,089 --> 00:30:23,959
suicides the study failed to identify

631
00:30:21,119 --> 00:30:27,659
any factor in the birth chart

632
00:30:23,960 --> 00:30:29,519
significantly related to suicide there

633
00:30:27,660 --> 00:30:33,120
is overwhelming evidence showing

634
00:30:29,519 --> 00:30:35,369
astrology cannot do what is claimed for

635
00:30:33,119 --> 00:30:36,299
it moreover it seems to me that

636
00:30:35,369 --> 00:30:39,269
astrology

637
00:30:36,299 --> 00:30:41,669
although offering psychological solace

638
00:30:39,269 --> 00:30:44,910
to those who believe has never

639
00:30:41,670 --> 00:30:49,019
contributed in any useful way to the

640
00:30:44,910 --> 00:30:52,040
advancement of knowledge and again that

641
00:30:49,019 --> 00:30:55,660
comes to us from the skeptic magazine

642
00:30:52,039 --> 00:30:59,210
from September 1984

643
00:30:55,660 --> 00:31:04,000
and I note that this was reprinted with

644
00:30:59,210 --> 00:31:06,679
permission from the laboratory news and

645
00:31:04,000 --> 00:31:08,420
again this is just one of hundreds of

646
00:31:06,679 --> 00:31:10,940
thousands of articles and reports

647
00:31:08,420 --> 00:31:11,720
available at your fingertips at skeptics

648
00:31:10,940 --> 00:31:13,509
calm

649
00:31:11,720 --> 00:31:17,640
da-rae you

650
00:31:13,509 --> 00:31:17,640
[Music]

651
00:31:25,319 --> 00:31:28,980
in Redford here if I can have a minute

652
00:31:27,690 --> 00:31:30,960
of your time I'd like to shamelessly

653
00:31:28,980 --> 00:31:33,029
plug my new book it's called

654
00:31:30,960 --> 00:31:35,460
investigating ghosts the scientific

655
00:31:33,029 --> 00:31:37,170
search for spirits examines ghost

656

00:31:35,460 --> 00:31:39,210
hunting and ghost investigations from

657
00:31:37,170 --> 00:31:41,460
historical cultural and evidence based

658
00:31:39,210 --> 00:31:44,279
perspective from the Victorian era to

659
00:31:41,460 --> 00:31:46,350
modern TV ghost hunters it is in a way a

660
00:31:44,279 --> 00:31:48,119
follow-up to my 2010 book scientific

661
00:31:46,349 --> 00:31:50,399
paranormal investigation how to solve

662
00:31:48,119 --> 00:31:51,649
unexplained mysteries that book was more

663
00:31:50,400 --> 00:31:54,000
general covering everything from

664
00:31:51,650 --> 00:31:56,400
psychics to crop circles to monsters and

665
00:31:54,000 --> 00:31:58,710
ghosts but I realized that ghost or a

666
00:31:56,400 --> 00:32:00,600
special category not only are ghosts the

667
00:31:58,710 --> 00:32:02,220
most popular paranormal pursuit but

668
00:32:00,599 --> 00:32:04,319
ghost hunting also has its own set of

669
00:32:02,220 --> 00:32:06,600
assumptions and challenges the book will

670
00:32:04,319 --> 00:32:09,679

be available soon for under 20 bucks and

671

00:32:06,599 --> 00:32:09,679

is currently available as an e-book

672

00:32:09,890 --> 00:32:14,150

for more information on the book and me

673

00:32:11,900 --> 00:32:17,019

check out Benjamin Radford com please

674

00:32:14,150 --> 00:32:17,019

check it out Thanks

675

00:32:22,000 --> 00:32:25,048

[Music]

676

00:32:26,009 --> 00:32:34,619

that looks good enough to eat

677

00:32:28,119 --> 00:32:42,129

or does it here's the diet sceptic

678

00:32:34,619 --> 00:32:46,989

mandala noble aloe skeptic sign

679

00:32:42,130 --> 00:32:51,210

listeners mantle a noble here dietitian

680

00:32:46,990 --> 00:32:51,210

and skeptic reporting from Brisbane

681

00:32:53,159 --> 00:33:00,490

welcome skeptics and listeners to this

682

00:32:56,500 --> 00:33:04,960

week's almost sneezy diet skeptic report

683

00:33:00,490 --> 00:33:08,589

and as you may have guessed I have been

684

00:33:04,960 --> 00:33:12,298

inspired by all those social media ads I

685
00:33:08,589 --> 00:33:18,398
haven't seen encouraging me to kick off

686
00:33:12,298 --> 00:33:20,589
20,000 and 19 with a diet and the one

687
00:33:18,398 --> 00:33:23,439
diet that seems to be the most

688
00:33:20,589 --> 00:33:28,658
recommended for this year's life change

689
00:33:23,440 --> 00:33:31,570
is the ketogenic or keto diet so I've

690
00:33:28,659 --> 00:33:34,240
had a little drive into the evidence

691
00:33:31,569 --> 00:33:39,009
relating to keto diets to see if what I

692
00:33:34,240 --> 00:33:43,240
read in the media fits the facts I'm

693
00:33:39,009 --> 00:33:46,089
going to unpack five claims I have heard

694
00:33:43,240 --> 00:33:49,269
recently or read recently made about

695
00:33:46,089 --> 00:33:52,898
keto diets but before I begin I would

696
00:33:49,269 --> 00:33:55,179
like to make this little covet the

697
00:33:52,898 --> 00:33:57,609
evidence shows that the diet may be

698
00:33:55,179 --> 00:34:00,278
suitable for some people with certain

699
00:33:57,609 --> 00:34:03,639
medical conditions but should not be

700
00:34:00,278 --> 00:34:06,369
used for the general public or as a long

701
00:34:03,640 --> 00:34:09,398
term diet so when I examine the

702
00:34:06,369 --> 00:34:12,519
ketogenic diet in this report it will be

703
00:34:09,398 --> 00:34:16,329
as it is formulated in the research for

704
00:34:12,519 --> 00:34:18,219
weight loss that is normally a period of

705
00:34:16,329 --> 00:34:21,159
around three months on a strict

706
00:34:18,219 --> 00:34:23,408
ketogenic protocol followed by a

707
00:34:21,159 --> 00:34:26,440
maintenance diet which is most often a

708
00:34:23,409 --> 00:34:30,010
low-carb diet or the Mediterranean diet

709
00:34:26,440 --> 00:34:32,849
I will also mention that many of the

710
00:34:30,010 --> 00:34:35,850
interventions that was in the research

711
00:34:32,849 --> 00:34:38,159
also had a physical activity component

712
00:34:35,849 --> 00:34:41,309
and that this physical activity

713

00:34:38,159 --> 00:34:43,889
component would have contributed to the

714
00:34:41,309 --> 00:34:49,070
positive results that were attributed to

715
00:34:43,889 --> 00:34:53,639
the ketogenic diet so claim number one

716
00:34:49,070 --> 00:34:58,019
the ketogenic diet is perfect for weight

717
00:34:53,639 --> 00:35:02,069
loss to evaluate this claim we must

718
00:34:58,019 --> 00:35:05,550
first consider what we already know

719
00:35:02,070 --> 00:35:08,730
about weight loss the evidence we have

720
00:35:05,550 --> 00:35:11,789
to date is that weight regain is common

721
00:35:08,730 --> 00:35:14,760
after weight loss that is achieved with

722
00:35:11,789 --> 00:35:17,610
diet and exercise weight loss is maximum

723
00:35:14,760 --> 00:35:19,730
at six to twelve months and then

724
00:35:17,610 --> 00:35:22,769
regardless of the amount of weight lost

725
00:35:19,730 --> 00:35:25,710
most weight is regained within a two

726
00:35:22,769 --> 00:35:27,150
year period and by five years the

727
00:35:25,710 --> 00:35:30,690

majority of people are at their

728

00:35:27,150 --> 00:35:33,059

pre-intervention body weight that is

729

00:35:30,690 --> 00:35:36,480

evidence from our National Health and

730

00:35:33,059 --> 00:35:39,630

Medical Research Council what it tells

731

00:35:36,480 --> 00:35:42,090

us is that for the ketogenic diet to be

732

00:35:39,630 --> 00:35:44,460

the perfect diet it needs to demonstrate

733

00:35:42,090 --> 00:35:45,150

that weight loss can be maintained for

734

00:35:44,460 --> 00:35:48,059

two years

735

00:35:45,150 --> 00:35:50,820

and ideally can demonstrate weight loss

736

00:35:48,059 --> 00:35:55,500

to five years to that end I made a

737

00:35:50,820 --> 00:35:59,160

fairly thorough search of all randomized

738

00:35:55,500 --> 00:36:04,079

control trials of ketogenic diets and I

739

00:35:59,159 --> 00:36:08,159

found over 60 of these only six studies

740

00:36:04,079 --> 00:36:09,809

had two years follow-up the results for

741

00:36:08,159 --> 00:36:13,139

the participants under research

742
00:36:09,809 --> 00:36:17,400
conditions showed maximum weight loss at

743
00:36:13,139 --> 00:36:21,629
six months followed by weight regain in

744
00:36:17,400 --> 00:36:27,450
all trials and no studies went beyond

745
00:36:21,630 --> 00:36:30,180
two years conclusion today the evidence

746
00:36:27,449 --> 00:36:33,149
does not demonstrate that the ketogenic

747
00:36:30,179 --> 00:36:37,079
diet is more successful than any other

748
00:36:33,150 --> 00:36:40,309
diet for long-term weight loss okay

749
00:36:37,079 --> 00:36:43,500
let's move on to claim number two a

750
00:36:40,309 --> 00:36:45,989
greater proportion of fat will be lost

751
00:36:43,500 --> 00:36:49,800
from the abdominal cavity

752
00:36:45,989 --> 00:36:52,949
some studies did demonstrate a decrease

753
00:36:49,800 --> 00:36:55,560
in waist circumference however similar

754
00:36:52,949 --> 00:36:58,980
to changes in weight the maximum

755
00:36:55,559 --> 00:37:01,349
decrease was at six months followed by

756
00:36:58,980 --> 00:37:04,909
an increase towards pre-intervention

757
00:37:01,349 --> 00:37:08,760
weight circumference at two years

758
00:37:04,909 --> 00:37:11,309
conclusion to date the evidence does not

759
00:37:08,760 --> 00:37:14,010
demonstrate that the ketogenic diet is

760
00:37:11,309 --> 00:37:15,779
more successful than any other diet for

761
00:37:14,010 --> 00:37:20,730
long term reduction in waist

762
00:37:15,780 --> 00:37:24,089
circumference claim number three it can

763
00:37:20,730 --> 00:37:28,650
achieve a dramatic improvement in lipid

764
00:37:24,088 --> 00:37:32,099
profiles the studies regarding lipid

765
00:37:28,650 --> 00:37:34,369
profiles were conflicting some showed no

766
00:37:32,099 --> 00:37:37,140
significant difference from baseline

767
00:37:34,369 --> 00:37:39,809
others showed that triglycerides like

768
00:37:37,139 --> 00:37:42,299
weight and waist circumference seem to

769
00:37:39,809 --> 00:37:44,670
be most improved at six months and they

770

00:37:42,300 --> 00:37:48,869
seem to be returning to pre intervention

771
00:37:44,670 --> 00:37:51,059
levels at two years another study found

772
00:37:48,869 --> 00:37:53,039
greater improvements in lipid profile

773
00:37:51,059 --> 00:37:55,320
from participants on the low-carb

774
00:37:53,039 --> 00:37:59,190
ketogenic diet compared to a

775
00:37:55,320 --> 00:38:02,099
Mediterranean or low-fat diet conclusion

776
00:37:59,190 --> 00:38:04,250
the evidence seems conflicting and more

777
00:38:02,099 --> 00:38:07,109
research is needed to confirm results

778
00:38:04,250 --> 00:38:10,559
also physical activity has a known

779
00:38:07,108 --> 00:38:12,569
benefit to lipid profiles and may have

780
00:38:10,559 --> 00:38:16,049
contributed to the positive results

781
00:38:12,570 --> 00:38:19,650
claim number four the ketogenic diet

782
00:38:16,050 --> 00:38:23,039
will reduce your appetite some research

783
00:38:19,650 --> 00:38:26,820
has shown that ghrelin the appetite

784
00:38:23,039 --> 00:38:30,588

stimulating hormone is suppressed while

785

00:38:26,820 --> 00:38:32,820

participants were in ketosis have a once

786

00:38:30,588 --> 00:38:33,539

participant switch to the maintenance

787

00:38:32,820 --> 00:38:37,920

diet

788

00:38:33,539 --> 00:38:40,500

ghrelin levels rose significantly this

789

00:38:37,920 --> 00:38:44,039

would match the results observed in

790

00:38:40,500 --> 00:38:46,139

studies comparing ketogenic diets to

791

00:38:44,039 --> 00:38:49,889

other diets where initial weight loss

792

00:38:46,139 --> 00:38:52,338

was greater on the ketogenic diet but

793

00:38:49,889 --> 00:38:56,598

that was fired by greater weight regain

794

00:38:52,338 --> 00:38:59,679

even the most frenetic of ketogenic diet

795

00:38:56,599 --> 00:39:03,490

proponents medical doctor Andres

796

00:38:59,679 --> 00:39:05,818

Enfield concedes most people end up

797

00:39:03,489 --> 00:39:09,429

dipping in and out of ketosis

798

00:39:05,818 --> 00:39:13,929

semi-regularly anyway and it's a hard

799

00:39:09,429 --> 00:39:16,629

thing to always be in deep ketosis his

800

00:39:13,929 --> 00:39:19,808

solution to clients who follow the

801

00:39:16,630 --> 00:39:21,789

ketogenic diet but do not lose weight is

802

00:39:19,809 --> 00:39:24,809

to consider adding intermittent fasting

803

00:39:21,789 --> 00:39:28,630

to another client he provided these

804

00:39:24,809 --> 00:39:32,040

reassuring words an alternative can be a

805

00:39:28,630 --> 00:39:37,269

need for starvation that is rarely

806

00:39:32,039 --> 00:39:40,210

sustainable or empowering conclusion

807

00:39:37,269 --> 00:39:43,780

maybe the ketogenic diet does reduce

808

00:39:40,210 --> 00:39:46,659

appetite while you are in ketosis but

809

00:39:43,780 --> 00:39:50,200

this may not help maintain weight loss

810

00:39:46,659 --> 00:39:53,980

as weight regain mainly occurs in the

811

00:39:50,199 --> 00:39:57,159

maintenance period Romanian ketosis is

812

00:39:53,980 --> 00:39:59,789

hard and not recommended for the general

813
00:39:57,159 --> 00:40:02,670
public and we all seem to agree that

814
00:39:59,789 --> 00:40:08,400
starvation is not a sustainable solution

815
00:40:02,670 --> 00:40:13,269
and finally number 5 the ketogenic diet

816
00:40:08,400 --> 00:40:15,700
improves biomarkers for diabetes in the

817
00:40:13,269 --> 00:40:20,500
studies that reported the participants

818
00:40:15,699 --> 00:40:22,868
average hba1c an indication of how much

819
00:40:20,500 --> 00:40:26,349
sugar you've had in your blood over the

820
00:40:22,869 --> 00:40:28,599
past few months the results were not

821
00:40:26,349 --> 00:40:32,338
significantly different between the

822
00:40:28,599 --> 00:40:36,068
groups on a low-carb ketogenic diet or a

823
00:40:32,338 --> 00:40:38,139
low-fat diet both followed the same

824
00:40:36,068 --> 00:40:41,048
trajectory as weight and waist

825
00:40:38,139 --> 00:40:43,568
circumference been at the lowest level

826
00:40:41,048 --> 00:40:46,539
at six months followed by an increase

827

00:40:43,568 --> 00:40:50,739
towards pre-intervention levels at two

828
00:40:46,539 --> 00:40:52,960
years conclusion to date the evidence

829
00:40:50,739 --> 00:40:55,269
does not demonstrate that the ketogenic

830
00:40:52,960 --> 00:40:57,460
diet is more successful than any other

831
00:40:55,269 --> 00:41:01,989
diet for long term reduction in

832
00:40:57,460 --> 00:41:04,780
biomarkers for diabetes there are some

833
00:41:01,989 --> 00:41:07,808
other concerns about the ketogenic diet

834
00:41:04,780 --> 00:41:12,490
and those include that a keto diet may

835
00:41:07,809 --> 00:41:13,600
be high in unhealthy saturated fats low

836
00:41:12,489 --> 00:41:16,299
in fiber

837
00:41:13,599 --> 00:41:19,119
which can affect heart health some

838
00:41:16,300 --> 00:41:21,880
chronic disease can increase bowel

839
00:41:19,119 --> 00:41:24,339
problems and risk of bowel cancer and

840
00:41:21,880 --> 00:41:27,160
that a keto diet may be missing

841
00:41:24,340 --> 00:41:30,400

important vitamins such as thiamine

842

00:41:27,159 --> 00:41:33,599

folate vitamin A E b6

843

00:41:30,400 --> 00:41:37,510

calcium magnesium iron and potassium

844

00:41:33,599 --> 00:41:40,360

there have also been some negative

845

00:41:37,510 --> 00:41:42,900

effects of the keto diet reported and

846

00:41:40,360 --> 00:41:46,840

these include fatigue constipation

847

00:41:42,900 --> 00:41:50,309

headache bad breath feeling sick

848

00:41:46,840 --> 00:41:53,250

dizziness dehydration bowel problems

849

00:41:50,309 --> 00:41:57,690

high cholesterol kidney problems

850

00:41:53,250 --> 00:42:00,670

osteoporosis due to lack of calcium and

851

00:41:57,690 --> 00:42:05,710

rapid weight regain when normal diet

852

00:42:00,670 --> 00:42:08,260

regimes of the one study that I reviewed

853

00:42:05,710 --> 00:42:11,849

where the participants symptoms were

854

00:42:08,260 --> 00:42:15,040

recorded the group on the low-carb

855

00:42:11,849 --> 00:42:18,339

ketogenic diet reported significantly

856
00:42:15,039 --> 00:42:22,630
higher levels of bad breath constipation

857
00:42:18,340 --> 00:42:26,200
and dry mouth so skeptics as normal you

858
00:42:22,630 --> 00:42:28,630
will find general evidence based dietary

859
00:42:26,199 --> 00:42:31,439
recommendations for ensuring you receive

860
00:42:28,630 --> 00:42:35,440
all the nutrients required for health at

861
00:42:31,440 --> 00:42:38,200
WWE TLC o VA you if you're in Australia

862
00:42:35,440 --> 00:42:40,990
or on your country's Department of

863
00:42:38,199 --> 00:42:43,389
Health website anyone starting a

864
00:42:40,989 --> 00:42:46,059
ketogenic diet should do so under

865
00:42:43,389 --> 00:42:48,059
clinical supervision along with the help

866
00:42:46,059 --> 00:42:51,369
of an accredited practicing dietitian

867
00:42:48,059 --> 00:42:56,610
until next year skeptics I wish you love

868
00:42:51,369 --> 00:42:56,609
laughter and peaceful eating bye for now

869
00:43:00,760 --> 00:43:03,809
[Music]

870
00:43:10,420 --> 00:43:16,670
hi this is dr. Pamela gay from astronomy

871
00:43:13,818 --> 00:43:18,588
cast each week Fraser Cain and I take

872
00:43:16,670 --> 00:43:20,780
our listeners on a fact-based journey

873
00:43:18,588 --> 00:43:23,539
through the cosmos with our weekly

874
00:43:20,780 --> 00:43:26,329
podcast we explain not just what we know

875
00:43:23,539 --> 00:43:29,179
but how we know what we know about this

876
00:43:26,329 --> 00:43:31,640
universe that we share check us out at

877
00:43:29,179 --> 00:43:34,039
astronomy cast calm and look for us in

878
00:43:31,639 --> 00:43:37,859
itunes google play and wherever you

879
00:43:34,039 --> 00:43:51,909
download podcasts see online

880
00:43:37,860 --> 00:43:56,000
[Music]

881
00:43:51,909 --> 00:43:58,759
now here's a story that was a stories of

882
00:43:56,000 --> 00:44:02,269
such an article that was published at

883
00:43:58,760 --> 00:44:04,670
BuzzFeed BuzzFeed calm links in this

884

00:44:02,269 --> 00:44:06,679
week's show notes and I can't vouch who

885
00:44:04,670 --> 00:44:08,329
this one folks I don't know how many of

886
00:44:06,679 --> 00:44:10,279
these are true I suspect all of them are

887
00:44:08,329 --> 00:44:12,130
but I don't know I guess in a way it

888
00:44:10,280 --> 00:44:15,769
doesn't matter too much it quite funny

889
00:44:12,130 --> 00:44:19,369
and this is along the lines of dumbest

890
00:44:15,769 --> 00:44:24,039
things anti-vaxxers actually said in

891
00:44:19,369 --> 00:44:27,139
2018 compiled by David stew Pyrrha and

892
00:44:24,039 --> 00:44:32,900
with a little help from Maynard we read

893
00:44:27,139 --> 00:44:35,750
on the plague somebody posted my point

894
00:44:32,900 --> 00:44:38,720
was the plague disappeared without a

895
00:44:35,750 --> 00:44:42,889
vaccine yeah because people died you an

896
00:44:38,719 --> 00:44:44,869
educated potato on the flu shot the flu

897
00:44:42,889 --> 00:44:47,569
is killing up to four thousand Americans

898
00:44:44,869 --> 00:44:49,940

a week this is why I refused to take the

899

00:44:47,570 --> 00:44:52,880
flu shot on health

900

00:44:49,940 --> 00:44:55,670
if vaccines were healthy you could put

901

00:44:52,880 --> 00:44:58,280
it on a spoon and eat it try it you'll

902

00:44:55,670 --> 00:44:59,720
die half broccoli was healthy you could

903

00:44:58,280 --> 00:45:02,900
put it in a syringe and inject it into

904

00:44:59,719 --> 00:45:06,049
your bloodstream try it you'll die on me

905

00:45:02,900 --> 00:45:08,840
Szell's when you realize measles

906

00:45:06,050 --> 00:45:11,410
protects against cancer you understand

907

00:45:08,840 --> 00:45:15,650
why the industry wants to prevent it on

908

00:45:11,409 --> 00:45:18,649
research friends I am desperate here

909

00:45:15,650 --> 00:45:20,780
I am a newly non vaccinator and I want

910

00:45:18,650 --> 00:45:23,269
to write about vaccination dangers for

911

00:45:20,780 --> 00:45:26,870
my final thesis in college however I

912

00:45:23,269 --> 00:45:29,869
have to use scholarly journals etc as my

913
00:45:26,869 --> 00:45:32,599
sources when I do a search deep into G s

914
00:45:29,869 --> 00:45:35,299
user library every article seems to be

915
00:45:32,599 --> 00:45:38,210
probe acts and nothing supporting my

916
00:45:35,300 --> 00:45:40,760
argument does anyone have some scholarly

917
00:45:38,210 --> 00:45:43,949
Doc's that I can use to prove my point

918
00:45:40,760 --> 00:45:46,680
effectively thank you all

919
00:45:43,949 --> 00:45:48,659
love heart blood heart the fact that you

920
00:45:46,679 --> 00:45:50,909
cannot find any journals to back up your

921
00:45:48,659 --> 00:45:54,299
viewpoint may suggest you need to

922
00:45:50,909 --> 00:45:57,868
reassess your viewpoint on chickenpox

923
00:45:54,300 --> 00:46:02,490
can anybody answer me why kids don't get

924
00:45:57,869 --> 00:46:07,050
chickenpox no more or was we experiments

925
00:46:02,489 --> 00:46:11,729
as kids I need answers vaccinations on

926
00:46:07,050 --> 00:46:14,940
giving birth Texas 14 year old virgin

927
00:46:11,730 --> 00:46:17,760
falls pregnant after flu shot he'll know

928
00:46:14,940 --> 00:46:21,929
why myself all my kids will never get

929
00:46:17,760 --> 00:46:25,020
the flu shot one of many reasons on the

930
00:46:21,929 --> 00:46:28,289
government let's not forget about

931
00:46:25,019 --> 00:46:30,780
anti-vaxxers there have been multiple

932
00:46:28,289 --> 00:46:35,088
scientific studies on the dangers of

933
00:46:30,780 --> 00:46:37,950
vaccinations show me one please

934
00:46:35,088 --> 00:46:39,588
government controls the internet now so

935
00:46:37,949 --> 00:46:43,858
I can't find what I'm looking for

936
00:46:39,588 --> 00:46:46,230
thanks for trying on polio I don't

937
00:46:43,858 --> 00:46:48,179
believe that one single vaccine is bad I

938
00:46:46,230 --> 00:46:52,949
believe that a hundred and twenty eight

939
00:46:48,179 --> 00:46:56,009
vaccines by age 12 is bad based on based

940
00:46:52,949 --> 00:46:58,139
on we vaccine more than any other

941

00:46:56,010 --> 00:47:00,780
country in the world and are slowly

942
00:46:58,139 --> 00:47:04,139
declining on our life expectancy in the

943
00:47:00,780 --> 00:47:06,869
United States where are you getting 128

944
00:47:04,139 --> 00:47:10,679
everything I've read is seventy doses of

945
00:47:06,869 --> 00:47:14,460
16 vaccines over 18 years you know

946
00:47:10,679 --> 00:47:16,710
what's worse than 70 doses polio polio

947
00:47:14,460 --> 00:47:21,480
hasn't been a factor in 60 years at

948
00:47:16,710 --> 00:47:24,750
least why is that on outbreaks with the

949
00:47:21,480 --> 00:47:27,750
headline CDC monitoring measles outbreak

950
00:47:24,750 --> 00:47:29,940
in 21 states including Michigan

951
00:47:27,750 --> 00:47:31,108
please don't vaccinate I don't want my

952
00:47:29,940 --> 00:47:35,369
kids getting the measles

953
00:47:31,108 --> 00:47:39,779
that's not how vaccines work on science

954
00:47:35,369 --> 00:47:41,910
the meme says did you know that vaccine

955
00:47:39,780 --> 00:47:44,819

ingredients are considered poisonous on

956

00:47:41,909 --> 00:47:48,509

their own but when mixed and injected

957

00:47:44,818 --> 00:47:51,349

they become magically safe hashtag

958

00:47:48,510 --> 00:47:55,130

because a science with the dollar sign

959

00:47:51,349 --> 00:47:56,940

sodium poisonous chlorine poisonous

960

00:47:55,130 --> 00:48:01,440

sodium chloride

961

00:47:56,940 --> 00:48:04,858

not poisonous actual science on the

962

00:48:01,440 --> 00:48:07,260

Bible with the headline anti-vaxxer

963

00:48:04,858 --> 00:48:09,119

warrior mom the effect scenes are so

964

00:48:07,260 --> 00:48:13,589

great why aren't they mentioned in the

965

00:48:09,119 --> 00:48:16,079

Bible on playing God with three

966

00:48:13,588 --> 00:48:18,480

unvaccinated adult children and three

967

00:48:16,079 --> 00:48:20,789

unvaccinated granddaughters all

968

00:48:18,480 --> 00:48:22,559

extremely healthy I will continue to

969

00:48:20,789 --> 00:48:25,318

question everything I put into my body

970
00:48:22,559 --> 00:48:27,779
as they will there is plenty of evidence

971
00:48:25,318 --> 00:48:30,059
to show us that quote playing God in

972
00:48:27,780 --> 00:48:33,000
quote with the human body and without

973
00:48:30,059 --> 00:48:35,519
planet is dangerous the human body is

974
00:48:33,000 --> 00:48:39,989
self developing self maintaining and

975
00:48:35,519 --> 00:48:42,838
self healing it needs no help just no

976
00:48:39,989 --> 00:48:46,858
interference and yet you're wearing

977
00:48:42,838 --> 00:48:49,980
glasses in your profile pic on getting

978
00:48:46,858 --> 00:48:52,500
sick I wish I would have never had been

979
00:48:49,980 --> 00:48:55,409
given the shot I've had it ever since I

980
00:48:52,500 --> 00:48:57,449
was a baby I did an experiment on myself

981
00:48:55,409 --> 00:49:00,389
and didn't get the flu shot for three

982
00:48:57,449 --> 00:49:03,210
years in a row got the flu super bad

983
00:49:00,389 --> 00:49:06,750
every single year and ended up in

984
00:49:03,210 --> 00:49:08,400
hospital so sadly I must get it even

985
00:49:06,750 --> 00:49:12,150
though I don't fully trust it

986
00:49:08,400 --> 00:49:14,190
modern medicine for you lol you know

987
00:49:12,150 --> 00:49:16,920
I've never heard this before are you

988
00:49:14,190 --> 00:49:19,829
saying because you got the flu shot as a

989
00:49:16,920 --> 00:49:22,470
kid you now have to get it each year or

990
00:49:19,829 --> 00:49:25,140
else you get the flu yeah I never get

991
00:49:22,469 --> 00:49:28,019
the flu when I get the shot but if I

992
00:49:25,139 --> 00:49:32,400
don't get the shot I get the flu really

993
00:49:28,019 --> 00:49:35,818
badly on mercury mercury in seafood

994
00:49:32,400 --> 00:49:36,420
equals not okay especially because you

995
00:49:35,818 --> 00:49:38,909
are pregnant

996
00:49:36,420 --> 00:49:42,180
mercury injected into babies bodies

997
00:49:38,909 --> 00:49:43,578
equals okay not it does not work that

998

00:49:42,179 --> 00:49:47,058
way

999
00:49:43,579 --> 00:49:48,650
things idiots say isn't there a distinct

1000
00:49:47,059 --> 00:49:51,559
difference in the mercury chemical

1001
00:49:48,650 --> 00:49:54,979
makeup in vaccines and in nature fish

1002
00:49:51,559 --> 00:49:58,009
etc I don't know about makeup since I

1003
00:49:54,978 --> 00:50:01,368
literally have never even owned makeup

1004
00:49:58,009 --> 00:50:03,458
in my life but CDC swears up and down it

1005
00:50:01,369 --> 00:50:08,298
is safe in vaccines because it is a

1006
00:50:03,458 --> 00:50:11,478
quote preservative end quote well how is

1007
00:50:08,298 --> 00:50:15,108
it okay there but not okay as a

1008
00:50:11,478 --> 00:50:18,018
preservative in food on evidence don't

1009
00:50:15,108 --> 00:50:20,449
overmedicate your dog vets pushed this

1010
00:50:18,018 --> 00:50:23,868
stuff like doctors push vaccinations

1011
00:50:20,449 --> 00:50:26,449
that's a stretch zero scientific

1012
00:50:23,869 --> 00:50:27,979

evidence human vaccines do harm I sleep

1013

00:50:26,449 --> 00:50:30,498

well at night knowing I won't die from

1014

00:50:27,978 --> 00:50:31,179

rubella or polio but that's just me call

1015

00:50:30,498 --> 00:50:35,028

me crazy

1016

00:50:31,179 --> 00:50:36,949

do some research please do share I did a

1017

00:50:35,028 --> 00:50:40,150

four-year medical degree but maybe you

1018

00:50:36,949 --> 00:50:43,159

know more than me that says it all and

1019

00:50:40,150 --> 00:50:46,130

those gems come to us from BuzzFeed I'll

1020

00:50:43,159 --> 00:50:48,978

link to it in this week's show notes and

1021

00:50:46,130 --> 00:50:51,318

true or not I suspect they were true not

1022

00:50:48,978 --> 00:50:53,929

true or not it is typical of some of the

1023

00:50:51,318 --> 00:51:09,199

things anti-vaxxers actually say

1024

00:50:53,929 --> 00:51:09,198

[Music]

1025

00:51:14,958 --> 00:51:21,328

thank you for listening to the skeptic

1026

00:51:17,309 --> 00:51:24,209

zone for 2018 I don't want to predict

1027
00:51:21,329 --> 00:51:26,160
what's going to happen in 2019 the only

1028
00:51:24,208 --> 00:51:29,368
thing I will predict is there will

1029
00:51:26,159 --> 00:51:32,278
probably be another skeptic zone episode

1030
00:51:29,369 --> 00:51:35,219
coming up and if all goes well there'll

1031
00:51:32,278 --> 00:51:38,969
be another roughly 52 skeptic zone

1032
00:51:35,219 --> 00:51:41,630
episodes coming up for 2019 and the only

1033
00:51:38,969 --> 00:51:44,818
reason there are so many skeptics tones

1034
00:51:41,630 --> 00:51:47,068
coming up and have been in the past well

1035
00:51:44,818 --> 00:51:49,949
partly because of my wonderful reporters

1036
00:51:47,068 --> 00:51:52,199
Mandee Lee Noble and Maynard and Heidi

1037
00:51:49,949 --> 00:51:55,798
Robertson who you heard in this week's

1038
00:51:52,199 --> 00:51:58,469
episode but largely it's due to people

1039
00:51:55,798 --> 00:52:02,009
like you who contribute via patreon or

1040
00:51:58,469 --> 00:52:06,179
PayPal at skeptic zone TV without funds

1041
00:52:02,009 --> 00:52:08,489
the show simply could not continue so a

1042
00:52:06,179 --> 00:52:11,039
big end of you thank you to all those

1043
00:52:08,489 --> 00:52:14,519
people who do in fact contribute to the

1044
00:52:11,039 --> 00:52:16,709
skeptic zone but for this year

1045
00:52:14,518 --> 00:52:24,088
this is Richard Saunders signing off

1046
00:52:16,708 --> 00:52:25,889
from the Bay Area San Francisco you've

1047
00:52:24,088 --> 00:52:30,918
been listening to the skeptic zone

1048
00:52:25,889 --> 00:52:34,498
podcast please visit our website at WWDC

1049
00:52:30,918 --> 00:52:37,288
for show notes contacts and to access

1050
00:52:34,498 --> 00:52:40,918
the bat catalog of episodes going back

1051
00:52:37,289 --> 00:52:44,549
to 2008 you can follow the skeptic zone

1052
00:52:40,918 --> 00:52:46,949
podcast on twitter at skeptic zone visit

1053
00:52:44,548 --> 00:52:47,838
our facebook page or leave a review on

1054
00:52:46,949 --> 00:52:50,519
itunes

1055

00:52:47,838 --> 00:52:53,909
you can also support the skeptic zone

1056
00:52:50,518 --> 00:52:56,629
via patreon or PayPal the skeptic zone

1057
00:52:53,909 --> 00:52:59,009
podcast is an independent production

1058
00:52:56,630 --> 00:53:01,140
reviews and opinions expressed on the

1059
00:52:59,009 --> 00:53:03,478
skeptic zone are not necessarily those

1060
00:53:01,139 --> 00:53:05,269
of Australian skeptics or any other

1061
00:53:03,478 --> 00:53:11,589
skeptical organization

1062
00:53:05,269 --> 00:53:11,590
[Music]

1063
00:53:18,929 --> 00:53:24,329
ensuring they are protected against

1064
00:53:21,099 --> 00:53:27,519
diseases that could but oh my god that's

1065
00:53:24,329 --> 00:53:35,279
those are playing with these chicken

1066
00:53:27,519 --> 00:53:35,280
Amon I have to take your chicken away oh

1067
00:53:35,460 --> 00:53:41,760
sorry I'll give it back to you no just

1068
00:53:41,820 --> 00:53:51,789
calm yourself all right you got to stay

1069
00:53:45,159 --> 00:53:57,909

out there no you got to go out go on

1070

00:53:51,789 --> 00:54:03,869

come out all right sorry I'll let you

1071

00:53:57,909 --> 00:54:03,869

back in in a minute it was