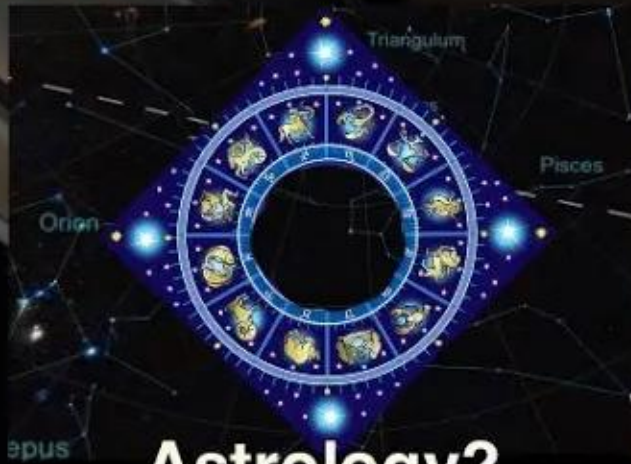


Show 532

THE  
**SKEPTIC  
ZONE**  
PODCAST

30 Dec 2018

[www.skepticzone.tv](http://www.skepticzone.tv)



**Astrology?**

**The Skeptic Zone Podcast**  
Show 532 - 30 December 2018

The Raw Skeptic, aka Heidi Robertson  
with some updates on “No Jab - No Play”.  
Reports by Jane Hansen

An astronomer's view of astrology  
By PHILIP A. IANNA

Mandy-Lee Noble and the Ketogenic

Crazy things Anti-Vaxers say

1  
00:00:11,860 --> 00:00:09,100  
welcome to the skeptic zone the podcast

2  
00:00:13,920 --> 00:00:11,870  
from Australia for science and reason

3  
00:00:25,540 --> 00:00:13,930  
[Music]

4  
00:00:29,290 --> 00:00:25,550  
yes it's the skeptic zone podcast

5  
00:00:32,080 --> 00:00:29,300  
episode number 532 for the 30th of

6  
00:00:35,709 --> 00:00:32,090  
December 2018 richardsaunders here with

7  
00:00:39,100 --> 00:00:35,719  
you from the San Francisco Bay Area it's

8  
00:00:42,579 --> 00:00:39,110  
the last skeptic zone for 2018 next year

9  
00:00:46,780 --> 00:00:42,589  
2019 will mean the skeptic zone will be

10  
00:00:50,860 --> 00:00:46,790  
broadcast or net cast webcast in 12

11  
00:00:53,109 --> 00:00:50,870  
different years it's just ridiculous

12  
00:00:56,469 --> 00:00:53,119  
coming up on this week's show Heidi

13  
00:01:00,429 --> 00:00:56,479

Robinson with an update on last week's

14

00:01:03,009 --> 00:01:00,439

stories revolving around the the 7:30

15

00:01:06,249 --> 00:01:03,019

report the ABC TV news program in

16

00:01:06,940 --> 00:01:06,259

Australia about the node jam no play

17

00:01:09,609 --> 00:01:06,950

laws

18

00:01:12,219 --> 00:01:09,619

well this update revolves around the

19

00:01:14,410 --> 00:01:12,229

reaction to that report and also a

20

00:01:18,310 --> 00:01:14,420

second update by Jane Hansen as well

21

00:01:23,020 --> 00:01:18,320

about the success of this sort of

22

00:01:26,200 --> 00:01:23,030

legislation no jab no pay and no Jeb no

23

00:01:27,309 --> 00:01:26,210

play looks like the anti-vaxxers are on

24

00:01:29,559 --> 00:01:27,319

the back foot

25

00:01:32,559 --> 00:01:29,569

following that it's a bit of good

26  
00:01:35,319 --> 00:01:32,569  
old-fashioned skepticism with a story I

27  
00:01:38,230 --> 00:01:35,329  
report about astrology remember that

28  
00:01:40,300 --> 00:01:38,240  
just yeah I remember astrology it's the

29  
00:01:42,219 --> 00:01:40,310  
good old days of skepticism and this

30  
00:01:43,779 --> 00:01:42,229  
comes to us from the pages of the

31  
00:01:45,789 --> 00:01:43,789  
skeptic magazine the journal from

32  
00:01:46,690 --> 00:01:45,799  
Australian skeptics it's a fascinating

33  
00:01:49,389 --> 00:01:46,700  
report

34  
00:01:51,819 --> 00:01:49,399  
I love poring through the back issues of

35  
00:01:53,859 --> 00:01:51,829  
the skeptic magazine and this is simply

36  
00:01:56,109 --> 00:01:53,869  
one of the thousands upon thousands of

37  
00:01:58,539 --> 00:01:56,119  
reports and interviews available to you

38  
00:02:02,260 --> 00:01:58,549

at skeptics calm dot a you an

39

00:02:04,899 --> 00:02:02,270

interesting look at astrology from an

40

00:02:07,629 --> 00:02:04,909

astronomer and we have a report from the

41

00:02:09,699 --> 00:02:07,639

diet skeptic mandala Noble this week

42

00:02:12,460 --> 00:02:09,709

Mandy will be looking at the keto or

43

00:02:14,199 --> 00:02:12,470

ketogenic diet especially for those

44

00:02:16,120 --> 00:02:14,209

people who are looking to make New

45

00:02:18,970 --> 00:02:16,130

Year's Eve resolutions New Year's

46

00:02:21,370 --> 00:02:18,980

resolutions about another diet now

47

00:02:23,230 --> 00:02:21,380

thinking about the keto diet I'm not - I

48

00:02:25,180 --> 00:02:23,240

don't know too much about this diet so

49

00:02:27,400 --> 00:02:25,190

I'm looking forward to this myself the

50

00:02:29,320 --> 00:02:27,410

diet skeptic will tell you all about the

51

00:02:31,990 --> 00:02:29,330

research and the results of the

52

00:02:34,030 --> 00:02:32,000

ketogenic diet then to round off the

53

00:02:36,759 --> 00:02:34,040

show but luster

54

00:02:38,800 --> 00:02:36,769

last bit of a skeptic zone for 2018 bit

55

00:02:41,979 --> 00:02:38,810

of Internet nonsense with the Maynard

56

00:02:45,660 --> 00:02:41,989

and I reading out some of the crazy

57

00:02:48,880 --> 00:02:45,670

wacky things and heave axes say online

58

00:02:51,849 --> 00:02:48,890

and this sir was found at the the

59

00:02:53,410 --> 00:02:51,859

BuzzFeed website now before we get stuck

60

00:02:56,349 --> 00:02:53,420

into the show I've been told there's a

61

00:02:59,289 --> 00:02:56,359

skeptic camp coming up in Monterey

62

00:03:02,589 --> 00:02:59,299

California on the fifth the fifth of

63

00:03:04,209 --> 00:03:02,599

January pretty soon I've in the general

64

00:03:07,210 --> 00:03:04,219

area it's not out of the question I

65

00:03:08,229 --> 00:03:07,220

might be able to make it there no

66

00:03:11,110 --> 00:03:08,239

promises

67

00:03:13,270 --> 00:03:11,120

my timing here is a little bit uncertain

68

00:03:15,280 --> 00:03:13,280

at the moment anyway for more

69

00:03:18,909 --> 00:03:15,290

information about skeptic camp coming up

70

00:03:21,069 --> 00:03:18,919

in Monterey on the 5th of January check

71

00:03:23,949 --> 00:03:21,079

out this week's episode for the show

72

00:03:28,000 --> 00:03:23,959

notes but now it's time for me to run

73

00:03:30,429 --> 00:03:28,010

upstairs defrost a pizza and all I'm

74

00:03:31,090 --> 00:03:30,439

doing that I hope you enjoy the skeptic

75

00:03:39,400 --> 00:03:31,100

zone

76

00:03:48,880 --> 00:03:39,410

[Music]

77

00:04:03,050 --> 00:03:52,850

it's the raw skeptic report with Heidi

78

00:04:05,120 --> 00:04:03,060

Robertson hello everyone Heidi Robertson

79

00:04:11,140 --> 00:04:05,130

from the Northern Rivers vaccination

80

00:04:16,400 --> 00:04:11,150

supporters from the Sunday Telegraph on

81

00:04:24,430 --> 00:04:16,410

Sunday December the 23rd 2018 by Jane

82

00:04:28,130 --> 00:04:24,440

Hansen no jab no wins as experts hit ABC

83

00:04:33,080 --> 00:04:28,140

probe acts policy applauded as 7:30 s

84

00:04:36,920 --> 00:04:33,090

claims ridiculed furious medical experts

85

00:04:40,280 --> 00:04:36,930

and parents have smashed the ABC's 730

86

00:04:42,410 --> 00:04:40,290

program for claiming no jab no play is

87

00:04:45,710 --> 00:04:42,420

excluding some children from early

88

00:04:48,500 --> 00:04:45,720

childhood education instead of leaving

89

00:04:52,130 --> 00:04:48,510

ant I've experienced secluded from

90

00:04:54,680 --> 00:04:52,140

society the no jab no player policy is

91

00:04:58,010 --> 00:04:54,690

directly responsible for saving lives

92

00:05:01,400 --> 00:04:58,020

and boosting falling immunization rates

93

00:05:03,530 --> 00:05:01,410

experts said adding vaccination is safe

94

00:05:07,070 --> 00:05:03,540

for children and parents have no reason

95

00:05:08,990 --> 00:05:07,080

to fear it meanwhile parents such as

96

00:05:11,270 --> 00:05:09,000

Catherine and Greg Hughes the parents of

97

00:05:15,350 --> 00:05:11,280

Riley Hughes who died of whooping cough

98

00:05:17,120 --> 00:05:15,360

at just four weeks of age in 2015 said

99

00:05:20,570 --> 00:05:17,130

they knew how it felt for their son to

100

00:05:23,150 --> 00:05:20,580

be excluded quote we do know how that

101  
00:05:26,420 --> 00:05:23,160  
feels because you know who won't be able

102  
00:05:28,420 --> 00:05:26,430  
to attend kindy next year Riley they

103  
00:05:33,340 --> 00:05:28,430  
said in a statement

104  
00:05:36,850 --> 00:05:33,350  
on Tuesdays ABC 7:30 mother Katharina

105  
00:05:39,969 --> 00:05:36,860  
Gorka claimed her youngest was a victim

106  
00:05:41,980 --> 00:05:39,979  
of the policy because quote because they

107  
00:05:44,490 --> 00:05:41,990  
have a set opinion on vaccinations and

108  
00:05:47,890 --> 00:05:44,500  
that's not going to change and quote

109  
00:05:51,279 --> 00:05:47,900  
quote it makes me feel like we're but

110  
00:05:54,749 --> 00:05:51,289  
secluded from society end quote

111  
00:05:58,689 --> 00:05:54,759  
miss Gorka told the 7:30 program

112  
00:06:01,330 --> 00:05:58,699  
Mullumbimby mother Jessica Goliath was

113  
00:06:03,100 --> 00:06:01,340

furious only 50 percent of

114

00:06:06,279 --> 00:06:03,110

five-year-olds are vaccinated in her

115

00:06:09,520 --> 00:06:06,289

town quote I think my kids are at a

116

00:06:11,560 --> 00:06:09,530

disadvantage in my community your child

117

00:06:13,480 --> 00:06:11,570

might miss out on early education but my

118

00:06:14,350 --> 00:06:13,490

child could catch whooping cough and die

119

00:06:18,700 --> 00:06:14,360

end quote

120

00:06:20,379 --> 00:06:18,710

she said quote I think no job no play is

121

00:06:23,020 --> 00:06:20,389

the best the government can do to

122

00:06:26,890 --> 00:06:23,030

encourage parents not to follow the

123

00:06:29,200 --> 00:06:26,900

anti-vaxxer end end quote the grieving

124

00:06:33,189 --> 00:06:29,210

parents of Dana McCaffrey who died from

125

00:06:36,640 --> 00:06:33,199

whooping cough in 2009 also said no job

126

00:06:39,159 --> 00:06:36,650

no play was the catalyst for change Toni

127

00:06:40,810 --> 00:06:39,169

McCaffrey maintains her newborn picked

128

00:06:43,089 --> 00:06:40,820

up whooping cough when she dropped her

129

00:06:46,390 --> 00:06:43,099

older children at a daycare center that

130

00:06:48,279 --> 00:06:46,400

had an outbreak quote nothing has worked

131

00:06:51,279 --> 00:06:48,289

in the past to increase vaccination

132

00:06:53,740 --> 00:06:51,289

rates whereas no jab no play is steadily

133

00:06:58,270 --> 00:06:53,750

increasing rates end quote

134

00:07:00,370 --> 00:06:58,280

mrs. McCaffrey said 7:30 story suggested

135

00:07:02,230 --> 00:07:00,380

childcare centers in northern New South

136

00:07:04,560 --> 00:07:02,240

Wales were facing closure due to

137

00:07:07,930 --> 00:07:04,570

unvaccinated children being ineligible

138

00:07:10,330 --> 00:07:07,940

but a check of child care vacancies in

139

00:07:13,089 --> 00:07:10,340

northern New South Wales showed four

140

00:07:15,279 --> 00:07:13,099

centers in Mullumbimby were full and the

141

00:07:17,980 --> 00:07:15,289

fifth the Mullumbimby community

142

00:07:19,800 --> 00:07:17,990

preschool had vacancies only on a

143

00:07:23,260 --> 00:07:19,810

Thursday and Friday

144

00:07:26,520 --> 00:07:23,270

nearby Byron Bay had no vacancies at its

145

00:07:29,020 --> 00:07:26,530

five preschools or daycare centres

146

00:07:31,450 --> 00:07:29,030

Roxanne Elliot from the care for kids

147

00:07:34,570 --> 00:07:31,460

website which Maps child care vacancies

148

00:07:37,680 --> 00:07:34,580

australia-wide said the policy has had

149

00:07:41,810 --> 00:07:37,690

no negative effects anywhere else

150

00:07:44,940 --> 00:07:41,820

quote wait lists are still very strong

151

00:07:48,420 --> 00:07:44,950

some services are experiencing vacancies

152

00:07:51,510 --> 00:07:48,430

but only due to oversupply but there is

153

00:07:52,080 --> 00:07:51,520

no correlation to this and no job no

154

00:07:56,520 --> 00:07:52,090

play

155

00:07:59,040 --> 00:07:56,530

end quote she said dr. Andrew McDonald a

156

00:08:00,920 --> 00:07:59,050

Campbell town pediatrician and former

157

00:08:03,360 --> 00:08:00,930

New South Wales shadow health minister

158

00:08:07,170 --> 00:08:03,370

said while he was initially hesitant

159

00:08:11,900 --> 00:08:07,180

about no job no play he had seen at work

160

00:08:14,820 --> 00:08:11,910

quote like magic in western Sydney

161

00:08:18,900 --> 00:08:14,830

Australian Medical Association president

162

00:08:21,240 --> 00:08:18,910

dr. Tony Bartone II said no job no play

163

00:08:24,800 --> 00:08:21,250

had worked where other measures had

164

00:08:27,750 --> 00:08:24,810

failed quote we would have preferred

165

00:08:30,570 --> 00:08:27,760

education and incentives rather than the

166

00:08:33,719 --> 00:08:30,580

big stick but all other measures had not

167

00:08:35,940 --> 00:08:33,729

worked and when misinformed parents are

168

00:08:37,740 --> 00:08:35,950

putting other children at risk measures

169

00:08:42,029 --> 00:08:37,750

need to be taken

170

00:08:47,280 --> 00:08:42,039

end quote he said and the following

171

00:08:52,140 --> 00:08:47,290

story comes to us today Sunday the 30th

172

00:08:54,480 --> 00:08:52,150

of December 2018 and it's another story

173

00:09:01,110 --> 00:08:54,490

from Jane Hanson from The Daily

174

00:09:04,110 --> 00:09:01,120

Telegraph quote 500 children a day catch

175

00:09:08,820 --> 00:09:04,120

up on vaccinations thanks to know jab

176  
00:09:10,890 --> 00:09:08,830  
law more than 500 children a day have

177  
00:09:14,670 --> 00:09:10,900  
caught up with their vaccinations since

178  
00:09:18,450 --> 00:09:14,680  
July the first thanks to new no job no

179  
00:09:20,810 --> 00:09:18,460  
pay changes government data obtained

180  
00:09:24,540 --> 00:09:20,820  
exclusively by The Sunday Telegraph

181  
00:09:27,120 --> 00:09:24,550  
shows 80,000 children have caught up in

182  
00:09:31,170 --> 00:09:27,130  
the five months between July the 1st and

183  
00:09:33,870 --> 00:09:31,180  
November the 30th the surge in numbers

184  
00:09:35,730 --> 00:09:33,880  
is a result of a change that reduces

185  
00:09:39,870 --> 00:09:35,740  
appearance fortnightly Family Tax

186  
00:09:42,750 --> 00:09:39,880  
Benefit Part A installments by about \$28

187  
00:09:46,340 --> 00:09:42,760  
per fortnight for each child that does

188  
00:09:50,240 --> 00:09:46,350

not meet the immunization requirements

189

00:09:51,490 --> 00:09:50,250

the government gave the families of

190

00:09:54,040 --> 00:09:51,500

245,000

191

00:09:57,520 --> 00:09:54,050

children a sixty three day grace period

192

00:10:00,010 --> 00:09:57,530

to catch up on all shots and a third of

193

00:10:04,420 --> 00:10:00,020

those about eighty thousand children are

194

00:10:06,250 --> 00:10:04,430

now on schedule quote this means on

195

00:10:09,460 --> 00:10:06,260

average more than five hundred children

196

00:10:10,990 --> 00:10:09,470

a day who did not meet immunization

197

00:10:15,280 --> 00:10:11,000

requirements when this new policy

198

00:10:16,870 --> 00:10:15,290

started on 1st of July 2018 have taken

199

00:10:21,240 --> 00:10:16,880

action end quote

200

00:10:24,160 --> 00:10:21,250

a department spokesman said about

201  
00:10:27,400 --> 00:10:24,170  
110,000 did not respond within the grace

202  
00:10:31,270 --> 00:10:27,410  
period and a further forty thousand are

203  
00:10:32,740 --> 00:10:31,280  
still within a grace period the data

204  
00:10:35,920 --> 00:10:32,750  
shows that since the government

205  
00:10:41,670 --> 00:10:35,930  
introduced its initial no job no paid

206  
00:10:44,980 --> 00:10:41,680  
policy on January the 1st 2016 almost

207  
00:10:47,250 --> 00:10:44,990  
250,000 children and their families have

208  
00:10:51,580 --> 00:10:47,260  
taken action to ensure they meet

209  
00:10:53,830 --> 00:10:51,590  
immunization requirements Australia now

210  
00:10:56,920 --> 00:10:53,840  
has the highest vaccination rate on

211  
00:10:59,079 --> 00:10:56,930  
record with ninety four point six two

212  
00:11:02,230 --> 00:10:59,089  
percent of children aged five years

213  
00:11:04,450 --> 00:11:02,240

fully immunized up to point zero three

214

00:11:05,430 --> 00:11:04,460

percentage points since before the

215

00:11:08,500 --> 00:11:05,440

changes

216

00:11:11,590 --> 00:11:08,510

Tony McCaffrey who lost her baby Dana to

217

00:11:13,480 --> 00:11:11,600

whooping cough in 2009 when vaccination

218

00:11:16,480 --> 00:11:13,490

rates were sliding to dangerously low

219

00:11:19,900 --> 00:11:16,490

levels has supported the no jab no play

220

00:11:21,610 --> 00:11:19,910

pay policies because quote nothing else

221

00:11:23,829 --> 00:11:21,620

was working end quote

222

00:11:26,829 --> 00:11:23,839

quote the data shows the policies are

223

00:11:28,900 --> 00:11:26,839

working and saving lives more children

224

00:11:31,390 --> 00:11:28,910

are protected and this makes childcare

225

00:11:33,250 --> 00:11:31,400

and preschool safer and healthier for

226

00:11:36,100 --> 00:11:33,260

everyone end quote

227

00:11:38,050 --> 00:11:36,110

she said Catherine and Greg Hughes who

228

00:11:42,790 --> 00:11:38,060

lost their baby son Riley to whooping

229

00:11:45,579 --> 00:11:42,800

cough in 2015 agreed quote the numbers

230

00:11:46,690 --> 00:11:45,589

are phenomenal we are thrilled that so

231

00:11:49,090 --> 00:11:46,700

many more children are getting

232

00:11:51,910 --> 00:11:49,100

vaccinated thanks to the no jab no pay

233

00:11:54,430 --> 00:11:51,920

policy this policy is making a real

234

00:11:56,350 --> 00:11:54,440

difference to children's lives ensuring

235

00:11:59,380 --> 00:11:56,360

they are protected against diseases that

236

00:12:01,420 --> 00:11:59,390

could potentially kill them end quote

237

00:12:05,030 --> 00:12:01,430

mrs. Hughes said

238

00:12:07,129 --> 00:12:05,040

quote ideally education would be enough

239

00:12:09,680 --> 00:12:07,139

to convince all parents that vaccination

240

00:12:12,619 --> 00:12:09,690

is the right thing but with the global

241

00:12:15,889 --> 00:12:12,629

rise of anti vaccination and anti

242

00:12:20,920 --> 00:12:15,899

science ideology we think strong policy

243

00:12:24,019 --> 00:12:20,930

like no jab no pay is needed end quote

244

00:12:26,210 --> 00:12:24,029

New South Wales has also achieved its

245

00:12:28,280 --> 00:12:26,220

highest vaccination rates with the

246

00:12:31,400 --> 00:12:28,290

figures for children fully vaccinated at

247

00:12:37,059 --> 00:12:31,410

five years of age increasing by over 6%

248

00:12:40,460 --> 00:12:37,069

from 2010 to 2018

249

00:12:43,429 --> 00:12:40,470

Isabel born Ellis was born ten weeks

250

00:12:46,540 --> 00:12:43,439

premature in August 2017

251

00:12:51,079 --> 00:12:46,550

djao mother suffering preeclampsia

252

00:12:54,139 --> 00:12:51,089

Isabel weighed a tiny 900 grams and as a

253

00:12:56,509 --> 00:12:54,149

result her parents Katie and Chris have

254

00:12:59,869 --> 00:12:56,519

always made sure she is up-to-date with

255

00:13:02,090 --> 00:12:59,879

her vaccines quote I've always been a

256

00:13:04,550 --> 00:13:02,100

believer and made sure she is up to date

257

00:13:07,340 --> 00:13:04,560

because she was so little and we wanted

258

00:13:09,889 --> 00:13:07,350

to keep her protected she'll have her 18

259

00:13:12,980 --> 00:13:09,899

months shots in February end quote

260

00:13:16,040 --> 00:13:12,990

she said increasing activity of anti

261

00:13:17,870 --> 00:13:16,050

vaccine is online has prompted the New

262

00:13:20,269 --> 00:13:17,880

South Wales healthcare Complaints

263

00:13:23,030 --> 00:13:20,279

Commission to issue a new warning about

264

00:13:25,730 --> 00:13:23,040

anti vaccination campaigners quote and

265

00:13:28,550 --> 00:13:25,740

the potential risks that such persons

266

00:13:31,370 --> 00:13:28,560

and associations pose to the public

267

00:13:33,530 --> 00:13:31,380

health and safety health consumers

268

00:13:36,350 --> 00:13:33,540

should be particularly wary of persons

269

00:13:39,230 --> 00:13:36,360

claiming to be experts or to have

270

00:13:42,740 --> 00:13:39,240

conducted research into the safety and

271

00:13:45,290 --> 00:13:42,750

efficacy of vaccines or immunization

272

00:13:48,230 --> 00:13:45,300

programs in circumstances where they do

273

00:13:50,480 --> 00:13:48,240

not hold relevant medical qualifications

274

00:13:53,870 --> 00:13:50,490

and are not a registered health

275

00:13:57,889 --> 00:13:53,880

practitioner end quote the December 18

276

00:14:01,220 --> 00:13:57,899

warning reads so that's great news a lot

277

00:14:04,369 --> 00:14:01,230

more kids have now been caught up on

278

00:14:05,630 --> 00:14:04,379

their vaccinations and as a result the

279

00:14:10,720 --> 00:14:05,640

community is

280

00:14:13,830 --> 00:14:10,730

safer and for now that's all for me and

281

00:14:21,160 --> 00:14:13,840

I'll catch you next time bye for now

282

00:14:25,910 --> 00:14:23,990

you're not gonna say Bigfoot's BS but

283

00:14:27,410 --> 00:14:25,920

the chupacabra is totally the result of

284

00:14:30,020 --> 00:14:27,420

top-secret government genetic

285

00:14:32,420 --> 00:14:30,030

experiments on remote island taking

286

00:14:33,920 --> 00:14:32,430

medical advice from iguanas Paltrow like

287

00:14:36,380 --> 00:14:33,930

steaming your lady parts and putting

288

00:14:38,750 --> 00:14:36,390

Jade eggs all up in net is a great way

289

00:14:41,000 --> 00:14:38,760

to improve your health police from

290

00:14:43,610 --> 00:14:41,010

around the world regularly use psychics

291

00:14:46,280 --> 00:14:43,620

to solve crimes they just don't talk

292

00:14:48,830 --> 00:14:46,290

about it spontaneous human combustion is

293

00:14:50,690 --> 00:14:48,840

for sure a real thing I've read all

294

00:14:54,440 --> 00:14:50,700

about it on the Internet and I worry

295

00:14:55,850 --> 00:14:54,450

someday it's going to happen to me we

296

00:14:58,280 --> 00:14:55,860

all have friends and family who believe

297

00:15:00,170 --> 00:14:58,290

these things and much more well if

298

00:15:01,940 --> 00:15:00,180

you're a rational thinker who is tired

299

00:15:03,860 --> 00:15:01,950

of arguing on social media and never

300

00:15:06,440 --> 00:15:03,870

getting anywhere we have a solution for

301

00:15:08,870 --> 00:15:06,450

you join the guerrilla skepticism on

302

00:15:11,300 --> 00:15:08,880

wikipedia team and we will teach you how

303

00:15:13,220 --> 00:15:11,310

to add reliable scientific and skeptical

304

00:15:16,370 --> 00:15:13,230

information to the world's number-one

305

00:15:18,320 --> 00:15:16,380

source of information Wikipedia we write

306

00:15:20,870 --> 00:15:18,330

new articles and improve existing ones

307

00:15:23,030 --> 00:15:20,880

we remove pseudoscience paranormal and

308

00:15:25,190 --> 00:15:23,040

altmed claims substituting the actual

309

00:15:27,890 --> 00:15:25,200

facts and we operate in many languages

310

00:15:30,230 --> 00:15:27,900

we've already reached tens of millions

311

00:15:32,240 --> 00:15:30,240

of people searching for information but

312

00:15:35,300 --> 00:15:32,250

as you can imagine we can never do

313

00:15:38,120 --> 00:15:35,310

enough so please join us all you need is

314

00:15:40,670 --> 00:15:38,130

a PC a Facebook account and a desire to

315

00:15:42,350 --> 00:15:40,680

help educate the planet in fact you'll

316

00:15:47,080 --> 00:15:42,360

be educating the world while you sleep

317

00:15:50,480 --> 00:15:47,090

contact us at G is owt at gmail.com

318

00:15:53,110 --> 00:15:50,490

guerrilla skepticism the time is now

319

00:16:01,740 --> 00:15:53,120

music by purple planet calm

320

00:16:08,610 --> 00:16:04,550

now some of you may know the wonders the

321

00:16:11,880 --> 00:16:08,620

magic the untold pleasure of jet lag

322

00:16:15,240 --> 00:16:11,890

which I suffer from when I travel across

323

00:16:18,420 --> 00:16:15,250

the Pacific so the other night unable to

324

00:16:21,300 --> 00:16:18,430

sleep I tuned in to Sydney radio and

325

00:16:26,730 --> 00:16:21,310

came across the late-night session on

326

00:16:28,740 --> 00:16:26,740

radio 2gb of an astrologer in this case

327

00:16:29,370 --> 00:16:28,750

Milton black now Milton black has been a

328

00:16:31,890 --> 00:16:29,380

year

329

00:16:34,890 --> 00:16:31,900

prominent astrology in Australia for

330

00:16:36,450 --> 00:16:34,900

decades I think you'd have to say I once

331

00:16:41,340 --> 00:16:36,460

cross swords with Milton black on

332

00:16:43,650 --> 00:16:41,350

national TV maybe 10 years ago and well

333

00:16:45,560 --> 00:16:43,660

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

334

00:16:48,360 --> 00:16:45,570

notes you can see the video for yourself

335

00:16:51,180 --> 00:16:48,370

but it inspired me to dive into the

336

00:16:53,190 --> 00:16:51,190

pages at the skeptic magazine and do a

337

00:16:55,710 --> 00:16:53,200

search on astrology and I came up with a

338

00:16:59,910 --> 00:16:55,720

very interesting article printed way

339

00:17:02,700 --> 00:16:59,920

back in September 1984 and this is from

340

00:17:04,920 --> 00:17:02,710

volume four number three of the skeptic

341

00:17:06,689 --> 00:17:04,930

again I will link to this issue in the

342

00:17:09,300 --> 00:17:06,699

show notes because all the back issues

343

00:17:11,579 --> 00:17:09,310

of the skeptic bar the last year going

344

00:17:15,600 --> 00:17:11,589

back to 1981 are available for you

345

00:17:18,179 --> 00:17:15,610

online to peruse and enjoy for free this

346

00:17:23,720 --> 00:17:18,189

item appears on page 23 and it's by

347

00:17:27,120 --> 00:17:23,730

Philip Ayane in astronomers view on

348

00:17:32,220 --> 00:17:28,919

one of the impressive things about

349

00:17:35,640 --> 00:17:32,230

astrology today is the extent to which

350

00:17:38,159 --> 00:17:35,650

it pervades our culture more people know

351

00:17:41,010 --> 00:17:38,169

their star sign then know their blood

352

00:17:42,360 --> 00:17:41,020

type and you can find zodiac motifs on

353

00:17:45,870 --> 00:17:42,370

almost anything

354

00:17:50,310 --> 00:17:45,880

for example the ANZ Bank in Australia

355

00:17:53,330 --> 00:17:50,320

has advertised a Zodiac savers plan to

356

00:17:57,180 --> 00:17:53,340

some this is just amusing but too many

357

00:17:59,100 --> 00:17:57,190

astrology is the Space Age science the

358

00:18:01,740 --> 00:17:59,110

guide to their personal lives and

359

00:18:04,230 --> 00:18:01,750

business several companies have been

360

00:18:06,720 --> 00:18:04,240

reported to use horoscopes to find the

361

00:18:10,110 --> 00:18:06,730

optimum time to introduce a new product

362

00:18:12,810 --> 00:18:10,120

into the marketplace or to judge what

363

00:18:15,120 --> 00:18:12,820

job a particular person might be best

364

00:18:17,820 --> 00:18:15,130

suited for a kidnapping trial in

365

00:18:20,520 --> 00:18:17,830

Cincinnati several years ago the defense

366

00:18:23,549 --> 00:18:20,530

attorneys consulted astrologists for

367

00:18:26,850 --> 00:18:23,559

guidance with the selection of a jury in

368

00:18:28,980 --> 00:18:26,860

a Florida rape case there was an attempt

369

00:18:33,090 --> 00:18:28,990

to have the charges dismissed on the

370

00:18:35,880 --> 00:18:33,100

grounds unfavorable celestial influences

371

00:18:38,820 --> 00:18:35,890

were at the root of the crime how you

372

00:18:41,460 --> 00:18:38,830

react to these stories no doubt depends

373

00:18:44,039 --> 00:18:41,470

to some degree on whether or not you see

374

00:18:47,070 --> 00:18:44,049

astrology as valid or invalid or

375

00:18:48,960 --> 00:18:47,080

somewhere in between scientists have

376

00:18:52,560 --> 00:18:48,970

been inclined to ignore astrology or

377

00:18:56,330 --> 00:18:52,570

dismiss it as nonsense but really we

378

00:18:59,340 --> 00:18:56,340

should ask might astrology in fact work

379

00:19:02,159 --> 00:18:59,350

have astrologists found fundamental laws

380

00:19:05,490 --> 00:19:02,169

governing our behavior what is the

381

00:19:08,580 --> 00:19:05,500

mechanism if any producing the effects

382

00:19:11,340 --> 00:19:08,590

claimed astrology is a system whereby

383

00:19:14,340 --> 00:19:11,350

the patterns of planets in the sky can

384

00:19:18,490 --> 00:19:14,350

be interpreted to reveal personality and

385

00:19:21,100 --> 00:19:18,500

predict events we perhaps all know the

386

00:19:23,980 --> 00:19:21,110

if you are born with the same Capricorn

387

00:19:27,600 --> 00:19:23,990

you are said to be neat methodical and

388

00:19:30,430 --> 00:19:27,610

have an extreme capacity for hard work

389

00:19:33,040 --> 00:19:30,440

planetary patterns are also alleged to

390

00:19:36,120 --> 00:19:33,050

yield information about the life of a

391

00:19:39,630 --> 00:19:36,130

business a building for a whole nation

392

00:19:42,570 --> 00:19:39,640

recently John Miller of New York City

393

00:19:46,090 --> 00:19:42,580

suggested a relationship between

394

00:19:50,140 --> 00:19:46,100

transits by the moon of Sirius the dog

395

00:19:54,790 --> 00:19:50,150

star and the enactment there of the dog

396

00:19:58,390 --> 00:19:54,800

litter law the so called pooper scooper

397

00:20:00,970 --> 00:19:58,400

statute the typical natal horoscope maps

398

00:20:03,340 --> 00:20:00,980

for a specific time of birth and

399

00:20:05,800 --> 00:20:03,350

location the positions of the planets

400

00:20:09,250 --> 00:20:05,810

with respect to the signs of the zodiac

401  
00:20:12,870 --> 00:20:09,260  
and the twelve houses the horoscope

402  
00:20:15,760 --> 00:20:12,880  
analysis is carried out by combining or

403  
00:20:19,180 --> 00:20:15,770  
synthesizing of the many various

404  
00:20:21,190 --> 00:20:19,190  
indicators of the chart the astrology

405  
00:20:23,350 --> 00:20:21,200  
might look at the distribution of the

406  
00:20:26,170 --> 00:20:23,360  
planets around the chart the occurrence

407  
00:20:29,320 --> 00:20:26,180  
of the planets and the cardinal mutable

408  
00:20:31,900 --> 00:20:29,330  
or fixed signs the ascendant sign the

409  
00:20:33,790 --> 00:20:31,910  
Sun sign the moon sign other planets in

410  
00:20:36,460 --> 00:20:33,800  
the signs planets and the astrological

411  
00:20:39,160 --> 00:20:36,470  
houses the angular relationships or

412  
00:20:41,890 --> 00:20:39,170  
aspects of the planets hypothetical

413  
00:20:43,630 --> 00:20:41,900

planets and a few other things if all

414

00:20:46,720 --> 00:20:43,640

the chart factors that have been

415

00:20:51,070 --> 00:20:46,730

produced were to be included a few

416

00:20:53,380 --> 00:20:51,080

thousand million it would take about 300

417

00:20:55,660 --> 00:20:53,390

kilometres of computer printout to list

418

00:20:57,750 --> 00:20:55,670

them the interpretation of all this

419

00:21:00,880 --> 00:20:57,760

information means yet another matter

420

00:21:02,890 --> 00:21:00,890

astrologers often do not agree with one

421

00:21:05,320 --> 00:21:02,900

another about the factors in the chart

422

00:21:08,800 --> 00:21:05,330

there are no Maxwell's equations of

423

00:21:12,230 --> 00:21:08,810

astrology all of this bears little

424

00:21:16,110 --> 00:21:12,240

resemblance to astronomy

425

00:21:19,409 --> 00:21:16,120

astronomy is a science it has most

426  
00:21:21,389 --> 00:21:19,419  
precise descriptions and the evidence of

427  
00:21:21,960 --> 00:21:21,399  
its success in seeking the secrets of

428  
00:21:24,539 --> 00:21:21,970  
the universe

429  
00:21:26,340 --> 00:21:24,549  
is there for all to see through

430  
00:21:28,799 --> 00:21:26,350  
astronomy and physics and related

431  
00:21:29,850 --> 00:21:28,809  
technologies we have sampled and

432  
00:21:33,060 --> 00:21:29,860  
scrutinized

433  
00:21:35,279 --> 00:21:33,070  
distant planets and their moons we know

434  
00:21:37,889 --> 00:21:35,289  
our sign as a garden-variety star like

435  
00:21:40,799 --> 00:21:37,899  
billions of others making up the clouds

436  
00:21:43,350 --> 00:21:40,809  
of the Milky Way all of the stars

437  
00:21:46,399 --> 00:21:43,360  
contain the same chemical elements and

438  
00:21:49,230 --> 00:21:46,409

operate with the same physics

439

00:21:52,169 --> 00:21:49,240

astronomers have examined great clouds

440

00:21:54,360 --> 00:21:52,179

of hydrogen where the stars are born the

441

00:21:56,669 --> 00:21:54,370

debris is left over when stars explode

442

00:21:59,340 --> 00:21:56,679

near the end of their lifetimes and have

443

00:22:02,430 --> 00:21:59,350

gone on to find there is galaxy after

444

00:22:05,519 --> 00:22:02,440

galaxy after distant galaxies like our

445

00:22:08,549 --> 00:22:05,529

own Milky Way these marvelous truths are

446

00:22:10,830 --> 00:22:08,559

not self-evident but come only after

447

00:22:13,590 --> 00:22:10,840

hundreds of years of very hard work and

448

00:22:16,560 --> 00:22:13,600

it has required thousands of individuals

449

00:22:18,419 --> 00:22:16,570

trying new ideas and curious about

450

00:22:21,389 --> 00:22:18,429

nature making mistakes

451

00:22:24,330 --> 00:22:21,399

finding new information adopting new

452

00:22:26,630 --> 00:22:24,340

viewpoints in order to understand

453

00:22:30,330 --> 00:22:26,640

something about how the universe behaves

454

00:22:32,519 --> 00:22:30,340

on the other hand the astrologers appear

455

00:22:34,799 --> 00:22:32,529

to have uncritically adopted any

456

00:22:37,500 --> 00:22:34,809

combination or permutation of factors

457

00:22:40,590 --> 00:22:37,510

they could think of in a horoscope

458

00:22:43,590 --> 00:22:40,600

without any appeal to evidence they have

459

00:22:46,889 --> 00:22:43,600

not appreciated how we as fallible

460

00:22:50,240 --> 00:22:46,899

humans are inaccurate biased observers

461

00:22:53,789 --> 00:22:50,250

of the world it is not adequate to trust

462

00:22:56,810 --> 00:22:53,799

intuition or our impressions of things

463

00:22:59,460 --> 00:22:56,820

we do need experiment and evidence a

464

00:23:02,510 --> 00:22:59,470

number of astrologers have wanted at

465

00:23:05,430 --> 00:23:02,520

least a scientific origin for astrology

466

00:23:07,769 --> 00:23:05,440

mark Edmund Jones has argued that

467

00:23:09,960 --> 00:23:07,779

astrology arose empirically when man

468

00:23:13,139 --> 00:23:09,970

began to observe correspondence between

469

00:23:16,049 --> 00:23:13,149

the events in his life and seasons and

470

00:23:18,330 --> 00:23:16,059

celestial phenomena the historical

471

00:23:21,180 --> 00:23:18,340

record shows astrology beginning about

472

00:23:24,480 --> 00:23:21,190

5000 years ago in Mesopotamia then

473

00:23:26,520 --> 00:23:24,490

astrology consisted of very simple

474

00:23:29,310 --> 00:23:26,530

about the appearance of the moon and the

475

00:23:31,740 --> 00:23:29,320

planets in the sky but if the sky is

476  
00:23:34,530 --> 00:23:31,750  
bright when the new moon appears the

477  
00:23:37,290 --> 00:23:34,540  
year will be good end quote such sayings

478  
00:23:40,440 --> 00:23:37,300  
were only a minor part of a very

479  
00:23:43,049 --> 00:23:40,450  
superstitious culture where any event in

480  
00:23:46,710 --> 00:23:43,059  
nature of almost any sort was read as a

481  
00:23:48,540 --> 00:23:46,720  
potent of some future event people

482  
00:23:51,120 --> 00:23:48,550  
looked for meaning in the migration of

483  
00:23:54,750 --> 00:23:51,130  
animals storms patterns of animal

484  
00:23:57,690 --> 00:23:54,760  
entrails patterns in flour or oil thrown

485  
00:24:01,290 --> 00:23:57,700  
into an urn of water like reading the

486  
00:24:05,430 --> 00:24:01,300  
tea leaves was this empirical consider

487  
00:24:08,100 --> 00:24:05,440  
the typical birth omen quote if a woman

488  
00:24:10,880 --> 00:24:08,110

gives birth to an elephant the land will

489

00:24:14,010 --> 00:24:10,890

be laid to waste unquote

490

00:24:16,740 --> 00:24:14,020

surely this and similar omens including

491

00:24:19,770 --> 00:24:16,750

those astrological are not based on

492

00:24:21,570 --> 00:24:19,780

observable fact as far as can be

493

00:24:23,990 --> 00:24:21,580

determined there is no recorded

494

00:24:26,669 --> 00:24:24,000

historical evidence to suggest any

495

00:24:30,360 --> 00:24:26,679

astrological tenants were originally

496

00:24:32,520 --> 00:24:30,370

empirical a problem for the scientists

497

00:24:35,880 --> 00:24:32,530

has been trying to understand what

498

00:24:38,400 --> 00:24:35,890

plausible physical mechanism could

499

00:24:41,460 --> 00:24:38,410

possibly produce the astrological

500

00:24:44,930 --> 00:24:41,470

effects astrologers have occasionally

501  
00:24:47,280 --> 00:24:44,940  
dropped vague allusions to gravity or

502  
00:24:50,549 --> 00:24:47,290  
electromagnetic radiation of some

503  
00:24:52,980 --> 00:24:50,559  
undiscovered kind as sources gravity

504  
00:24:55,350 --> 00:24:52,990  
seems unlikely the pull of the doctor in

505  
00:24:58,049 --> 00:24:55,360  
the delivery room is stronger than most

506  
00:25:00,660 --> 00:24:58,059  
planets and the astrologist certainly do

507  
00:25:04,169 --> 00:25:00,670  
not speak of quote inverse squares in

508  
00:25:06,570 --> 00:25:04,179  
quote effects radiation doesn't seem

509  
00:25:08,900 --> 00:25:06,580  
likely either unless you want to add the

510  
00:25:11,669 --> 00:25:08,910  
delivery room lights in the chart

511  
00:25:14,790 --> 00:25:11,679  
indicators for they are far stronger

512  
00:25:17,880 --> 00:25:14,800  
than planetary radiation nor does

513  
00:25:20,250 --> 00:25:17,890

particle radiation appear to correlate

514

00:25:22,560 --> 00:25:20,260

with astrological effects the

515

00:25:25,180 --> 00:25:22,570

astrologist seem to be stuck with a

516

00:25:27,609 --> 00:25:25,190

quote missing link in quote

517

00:25:30,639 --> 00:25:27,619

the crucial question however is whether

518

00:25:34,419 --> 00:25:30,649

or not natal horoscopes fit the lives of

519

00:25:36,159 --> 00:25:34,429

people first two interesting examples

520

00:25:38,529 --> 00:25:36,169

for astrologers at work

521

00:25:41,830 --> 00:25:38,539

to quote an anecdote from a recent

522

00:25:44,320 --> 00:25:41,840

astrology text one prominent astrologer

523

00:25:46,239 --> 00:25:44,330

just having impressed a client with an

524

00:25:48,609 --> 00:25:46,249

accurate description of what was going

525

00:25:50,919 --> 00:25:48,619

on in her life discovered she had been

526

00:25:53,680 --> 00:25:50,929

using the wrong chart one for a

527

00:25:56,200 --> 00:25:53,690

different client astrologers frequently

528

00:25:58,419 --> 00:25:56,210

study the lives of famous people Winston

529

00:26:01,509 --> 00:25:58,429

Churchill is a good example of someone

530

00:26:04,060 --> 00:26:01,519

about whom a great deal astrological has

531

00:26:06,479 --> 00:26:04,070

been written especially with regard to

532

00:26:09,210 --> 00:26:06,489

the timing of events in his life

533

00:26:14,169 --> 00:26:09,220

unfortunately for a long while

534

00:26:17,379 --> 00:26:14,179

Churchill's birth time was unknown AGS

535

00:26:20,950 --> 00:26:17,389

Norris who did much of his work used a

536

00:26:23,799 --> 00:26:20,960

chart rigorously recertified by several

537

00:26:26,109 --> 00:26:23,809

methods ie the birth time is inferred

538

00:26:29,139 --> 00:26:26,119

from astrological correspondence with

539

00:26:31,930 --> 00:26:29,149

documented events of the predicted

540

00:26:34,019 --> 00:26:31,940

ascendant Norris wrote hope if it were

541

00:26:36,999 --> 00:26:34,029

proved wrong which is almost

542

00:26:38,649 --> 00:26:37,009

inconceivable the blow to directional

543

00:26:41,830 --> 00:26:38,659

astrology would be a serious one

544

00:26:43,710 --> 00:26:41,840

important subsequently the birth time of

545

00:26:47,379 --> 00:26:43,720

Churchill was discovered and published

546

00:26:49,629 --> 00:26:47,389

the rectified time was about two and a

547

00:26:51,399 --> 00:26:49,639

half hours too late moreover at least

548

00:26:55,749 --> 00:26:51,409

half a dozen rectifications had been

549

00:26:59,080 --> 00:26:55,759

published none of them identical all of

550

00:27:00,669 --> 00:26:59,090

them wrong astrological personality

551  
00:27:04,029 --> 00:27:00,679  
descriptions are usually not very

552  
00:27:06,879 --> 00:27:04,039  
specific experiments by psychologists

553  
00:27:08,589 --> 00:27:06,889  
show people are inclined to believe any

554  
00:27:11,200 --> 00:27:08,599  
horoscope if they are told it was

555  
00:27:15,369 --> 00:27:11,210  
especially prepared for them to

556  
00:27:16,930 --> 00:27:15,379  
illustrate this in April 1968 Michelle

557  
00:27:19,749 --> 00:27:16,940  
goir keelin placed an ad in a magazine

558  
00:27:23,409 --> 00:27:19,759  
offering a free horoscope and analysis

559  
00:27:25,690 --> 00:27:23,419  
to anyone who would write in he sent the

560  
00:27:27,940 --> 00:27:25,700  
identical computer horoscope to each

561  
00:27:30,099 --> 00:27:27,950  
respondent with the questionnaire

562  
00:27:34,450 --> 00:27:30,109  
soliciting comments on the quality of

563  
00:27:36,909 --> 00:27:34,460

the analysis of 150 replies 94 found the

564

00:27:38,210 --> 00:27:36,919

fake horoscope accurately described

565

00:27:40,310 --> 00:27:38,220

their character

566

00:27:43,399 --> 00:27:40,320

there are personal problems and the

567

00:27:45,560 --> 00:27:43,409

cycles of events in their life 90 found

568

00:27:48,529 --> 00:27:45,570

the accuracy confirmed by family and

569

00:27:51,409 --> 00:27:48,539

friends the wrong horoscopes into each

570

00:27:54,529 --> 00:27:51,419

person was the birthdate of a doctor

571

00:27:56,770 --> 00:27:54,539

pre-op a notorious criminal who had

572

00:27:59,539 --> 00:27:56,780

murdered several dozen people and

573

00:28:01,159 --> 00:27:59,549

dissolved their bodies in life

574

00:28:03,440 --> 00:28:01,169

it is one of the most common

575

00:28:06,710 --> 00:28:03,450

associations in traditional astrology

576

00:28:09,799 --> 00:28:06,720

that occupation personality traits and

577

00:28:13,730 --> 00:28:09,809

physical characteristics vary according

578

00:28:16,279 --> 00:28:13,740

to sun signs it is their easy to check

579

00:28:20,120 --> 00:28:16,289

up on this claim for example according

580

00:28:22,210 --> 00:28:20,130

to Margaret hone an Aries person is

581

00:28:24,190 --> 00:28:22,220

expected to have several characteristics

582

00:28:27,710 --> 00:28:24,200

including red hair

583

00:28:30,260 --> 00:28:27,720

Raja Culver gathered a sample of three

584

00:28:32,270 --> 00:28:30,270

hundred redhead individuals to see if

585

00:28:35,870 --> 00:28:32,280

most of them might have been born under

586

00:28:38,450 --> 00:28:35,880

Aries and they weren't he found their

587

00:28:41,390 --> 00:28:38,460

birth signs to be about equally divided

588

00:28:44,330 --> 00:28:41,400

between all twelve zodiacal signs the

589

00:28:46,220 --> 00:28:44,340

study of GA Tyson of ten thousand three

590

00:28:48,799 --> 00:28:46,230

hundred thirteen university graduates

591

00:28:51,770 --> 00:28:48,809

over a 10-year period examined the

592

00:28:55,250 --> 00:28:51,780

relationship between date of birth and

593

00:28:58,190 --> 00:28:55,260

career no relationship between birth

594

00:29:00,250 --> 00:28:58,200

date and Korea was found other studies

595

00:29:02,690 --> 00:29:00,260

comparing standardized personality

596

00:29:05,480 --> 00:29:02,700

inventories were of sun-sign estimates

597

00:29:09,140 --> 00:29:05,490

shown no significant correlations

598

00:29:10,850 --> 00:29:09,150

nor do supposedly incompatible science

599

00:29:13,720 --> 00:29:10,860

show up in marriage or divorce

600

00:29:16,789 --> 00:29:13,730

statistics a few weeks ago at the

601  
00:29:19,279 --> 00:29:16,799  
University of Virginia we tested an

602  
00:29:22,490 --> 00:29:19,289  
astrologer John McColl who claimed an

603  
00:29:24,350 --> 00:29:22,500  
80% success rate at distinguishing the

604  
00:29:26,779 --> 00:29:24,360  
correct horoscopes for an individual

605  
00:29:29,720 --> 00:29:26,789  
from three false ones on the basis of

606  
00:29:32,180 --> 00:29:29,730  
observed physical characteristics this

607  
00:29:34,130 --> 00:29:32,190  
was a double-blind test and no one knew

608  
00:29:36,740 --> 00:29:34,140  
the correct answers until after the

609  
00:29:39,200 --> 00:29:36,750  
experiment had been performed for twenty

610  
00:29:42,140 --> 00:29:39,210  
eight subjects mr. McCall was right only

611  
00:29:44,590 --> 00:29:42,150  
seven times just what is to be expected

612  
00:29:47,390 --> 00:29:44,600  
by chance

613  
00:29:50,180 --> 00:29:47,400

finally one of the most comprehensive

614

00:29:53,390 --> 00:29:50,190

studies to date is an elaborate

615

00:29:56,540 --> 00:29:53,400

investigation of New York's suicides by

616

00:29:59,330 --> 00:29:56,550

astrologer Norah Press and several

617

00:30:01,790 --> 00:29:59,340

colleagues suicides were chosen because

618

00:30:05,330 --> 00:30:01,800

they could give a well-defined event

619

00:30:08,720 --> 00:30:05,340

time and it is such an extreme personal

620

00:30:11,320 --> 00:30:08,730

action so some tendency towards suicide

621

00:30:14,570 --> 00:30:11,330

should appear in their birth chart

622

00:30:18,080 --> 00:30:14,580

approximately 100,000 different factors

623

00:30:21,110 --> 00:30:18,090

were examined for the sample of 311

624

00:30:23,950 --> 00:30:21,120

suicides the study failed to identify

625

00:30:27,650 --> 00:30:23,960

any factor in the birth chart

626

00:30:29,510 --> 00:30:27,660

significantly related to suicide there

627

00:30:33,110 --> 00:30:29,520

is overwhelming evidence showing

628

00:30:35,360 --> 00:30:33,120

astrology cannot do what is claimed for

629

00:30:36,290 --> 00:30:35,370

it moreover it seems to me that

630

00:30:39,260 --> 00:30:36,300

astrology

631

00:30:41,660 --> 00:30:39,270

although offering psychological solace

632

00:30:44,900 --> 00:30:41,670

to those who believe has never

633

00:30:49,010 --> 00:30:44,910

contributed in any useful way to the

634

00:30:52,030 --> 00:30:49,020

advancement of knowledge and again that

635

00:30:55,650 --> 00:30:52,040

comes to us from the skeptic magazine

636

00:30:59,200 --> 00:30:55,660

from September 1984

637

00:31:03,990 --> 00:30:59,210

and I note that this was reprinted with

638

00:31:06,669 --> 00:31:04,000

permission from the laboratory news and

639

00:31:08,410 --> 00:31:06,679

again this is just one of hundreds of

640

00:31:10,930 --> 00:31:08,420

thousands of articles and reports

641

00:31:11,710 --> 00:31:10,940

available at your fingertips at skeptics

642

00:31:13,500 --> 00:31:11,720

calm

643

00:31:25,310 --> 00:31:13,510

da-rae you

644

00:31:28,970 --> 00:31:27,680

in Redford here if I can have a minute

645

00:31:30,950 --> 00:31:28,980

of your time I'd like to shamelessly

646

00:31:33,020 --> 00:31:30,960

plug my new book it's called

647

00:31:35,450 --> 00:31:33,030

investigating ghosts the scientific

648

00:31:37,160 --> 00:31:35,460

search for spirits examines ghost

649

00:31:39,200 --> 00:31:37,170

hunting and ghost investigations from

650

00:31:41,450 --> 00:31:39,210

historical cultural and evidence based

651

00:31:44,270 --> 00:31:41,460

perspective from the Victorian era to

652

00:31:46,340 --> 00:31:44,280

modern TV ghost hunters it is in a way a

653

00:31:48,110 --> 00:31:46,350

follow-up to my 2010 book scientific

654

00:31:50,390 --> 00:31:48,120

paranormal investigation how to solve

655

00:31:51,640 --> 00:31:50,400

unexplained mysteries that book was more

656

00:31:53,990 --> 00:31:51,650

general covering everything from

657

00:31:56,390 --> 00:31:54,000

psychics to crop circles to monsters and

658

00:31:58,700 --> 00:31:56,400

ghosts but I realized that ghost or a

659

00:32:00,590 --> 00:31:58,710

special category not only are ghosts the

660

00:32:02,210 --> 00:32:00,600

most popular paranormal pursuit but

661

00:32:04,310 --> 00:32:02,220

ghost hunting also has its own set of

662

00:32:06,590 --> 00:32:04,320

assumptions and challenges the book will

663

00:32:09,880 --> 00:32:06,600

be available soon for under 20 bucks and

664

00:32:14,140 --> 00:32:11,890

for more information on the book and me

665

00:32:21,990 --> 00:32:14,150

check out Benjamin Radford com please

666

00:32:22,000 --> 00:32:26,000

[Music]

667

00:32:34,610 --> 00:32:28,110

that looks good enough to eat

668

00:32:42,120 --> 00:32:34,620

or does it here's the diet sceptic

669

00:32:46,980 --> 00:32:42,130

mandala noble aloe skeptic sign

670

00:32:53,149 --> 00:32:46,990

listeners mantle a noble here dietitian

671

00:33:00,480 --> 00:32:56,490

welcome skeptics and listeners to this

672

00:33:04,950 --> 00:33:00,490

week's almost sneezy diet skeptic report

673

00:33:08,580 --> 00:33:04,960

and as you may have guessed I have been

674

00:33:12,289 --> 00:33:08,590

inspired by all those social media ads I

675

00:33:18,389 --> 00:33:12,299

haven't seen encouraging me to kick off

676  
00:33:20,580 --> 00:33:18,399  
20,000 and 19 with a diet and the one

677  
00:33:23,430 --> 00:33:20,590  
diet that seems to be the most

678  
00:33:28,649 --> 00:33:23,440  
recommended for this year's life change

679  
00:33:31,560 --> 00:33:28,659  
is the ketogenic or keto diet so I've

680  
00:33:34,230 --> 00:33:31,570  
had a little drive into the evidence

681  
00:33:39,000 --> 00:33:34,240  
relating to keto diets to see if what I

682  
00:33:43,230 --> 00:33:39,010  
read in the media fits the facts I'm

683  
00:33:46,080 --> 00:33:43,240  
going to unpack five claims I have heard

684  
00:33:49,260 --> 00:33:46,090  
recently or read recently made about

685  
00:33:52,889 --> 00:33:49,270  
keto diets but before I begin I would

686  
00:33:55,169 --> 00:33:52,899  
like to make this little covet the

687  
00:33:57,600 --> 00:33:55,179  
evidence shows that the diet may be

688  
00:34:00,269 --> 00:33:57,610

suitable for some people with certain

689

00:34:03,630 --> 00:34:00,279

medical conditions but should not be

690

00:34:06,360 --> 00:34:03,640

used for the general public or as a long

691

00:34:09,389 --> 00:34:06,370

term diet so when I examine the

692

00:34:12,510 --> 00:34:09,399

ketogenic diet in this report it will be

693

00:34:16,320 --> 00:34:12,520

as it is formulated in the research for

694

00:34:18,210 --> 00:34:16,330

weight loss that is normally a period of

695

00:34:21,149 --> 00:34:18,220

around three months on a strict

696

00:34:23,399 --> 00:34:21,159

ketogenic protocol followed by a

697

00:34:26,430 --> 00:34:23,409

maintenance diet which is most often a

698

00:34:30,000 --> 00:34:26,440

low-carb diet or the Mediterranean diet

699

00:34:32,840 --> 00:34:30,010

I will also mention that many of the

700

00:34:35,840 --> 00:34:32,850

interventions that was in the research

701  
00:34:38,150 --> 00:34:35,850  
also had a physical activity component

702  
00:34:41,300 --> 00:34:38,160  
and that this physical activity

703  
00:34:43,880 --> 00:34:41,310  
component would have contributed to the

704  
00:34:49,060 --> 00:34:43,890  
positive results that were attributed to

705  
00:34:53,630 --> 00:34:49,070  
the ketogenic diet so claim number one

706  
00:34:58,010 --> 00:34:53,640  
the ketogenic diet is perfect for weight

707  
00:35:02,060 --> 00:34:58,020  
loss to evaluate this claim we must

708  
00:35:05,540 --> 00:35:02,070  
first consider what we already know

709  
00:35:08,720 --> 00:35:05,550  
about weight loss the evidence we have

710  
00:35:11,780 --> 00:35:08,730  
to date is that weight regain is common

711  
00:35:14,750 --> 00:35:11,790  
after weight loss that is achieved with

712  
00:35:17,600 --> 00:35:14,760  
diet and exercise weight loss is maximum

713  
00:35:19,720 --> 00:35:17,610

at six to twelve months and then

714

00:35:22,760 --> 00:35:19,730

regardless of the amount of weight lost

715

00:35:25,700 --> 00:35:22,770

most weight is regained within a two

716

00:35:27,140 --> 00:35:25,710

year period and by five years the

717

00:35:30,680 --> 00:35:27,150

majority of people are at their

718

00:35:33,050 --> 00:35:30,690

pre-intervention body weight that is

719

00:35:36,470 --> 00:35:33,060

evidence from our National Health and

720

00:35:39,620 --> 00:35:36,480

Medical Research Council what it tells

721

00:35:42,080 --> 00:35:39,630

us is that for the ketogenic diet to be

722

00:35:44,450 --> 00:35:42,090

the perfect diet it needs to demonstrate

723

00:35:45,140 --> 00:35:44,460

that weight loss can be maintained for

724

00:35:48,050 --> 00:35:45,150

two years

725

00:35:50,810 --> 00:35:48,060

and ideally can demonstrate weight loss

726  
00:35:55,490 --> 00:35:50,820  
to five years to that end I made a

727  
00:35:59,150 --> 00:35:55,500  
fairly thorough search of all randomized

728  
00:36:04,070 --> 00:35:59,160  
control trials of ketogenic diets and I

729  
00:36:08,150 --> 00:36:04,080  
found over 60 of these only six studies

730  
00:36:09,800 --> 00:36:08,160  
had two years follow-up the results for

731  
00:36:13,130 --> 00:36:09,810  
the participants under research

732  
00:36:17,390 --> 00:36:13,140  
conditions showed maximum weight loss at

733  
00:36:21,620 --> 00:36:17,400  
six months followed by weight regain in

734  
00:36:27,440 --> 00:36:21,630  
all trials and no studies went beyond

735  
00:36:30,170 --> 00:36:27,450  
two years conclusion today the evidence

736  
00:36:33,140 --> 00:36:30,180  
does not demonstrate that the ketogenic

737  
00:36:37,070 --> 00:36:33,150  
diet is more successful than any other

738  
00:36:40,300 --> 00:36:37,080

diet for long-term weight loss okay

739

00:36:43,490 --> 00:36:40,310

let's move on to claim number two a

740

00:36:45,980 --> 00:36:43,500

greater proportion of fat will be lost

741

00:36:49,790 --> 00:36:45,990

from the abdominal cavity

742

00:36:52,940 --> 00:36:49,800

some studies did demonstrate a decrease

743

00:36:55,550 --> 00:36:52,950

in waist circumference however similar

744

00:36:58,970 --> 00:36:55,560

to changes in weight the maximum

745

00:37:01,339 --> 00:36:58,980

decrease was at six months followed by

746

00:37:04,900 --> 00:37:01,349

an increase towards pre-intervention

747

00:37:08,750 --> 00:37:04,910

weight circumference at two years

748

00:37:11,300 --> 00:37:08,760

conclusion to date the evidence does not

749

00:37:14,000 --> 00:37:11,310

demonstrate that the ketogenic diet is

750

00:37:15,770 --> 00:37:14,010

more successful than any other diet for

751

00:37:20,720 --> 00:37:15,780

long term reduction in waist

752

00:37:24,079 --> 00:37:20,730

circumference claim number three it can

753

00:37:28,640 --> 00:37:24,089

achieve a dramatic improvement in lipid

754

00:37:32,089 --> 00:37:28,650

profiles the studies regarding lipid

755

00:37:34,359 --> 00:37:32,099

profiles were conflicting some showed no

756

00:37:37,130 --> 00:37:34,369

significant difference from baseline

757

00:37:39,800 --> 00:37:37,140

others showed that triglycerides like

758

00:37:42,290 --> 00:37:39,810

weight and waist circumference seem to

759

00:37:44,660 --> 00:37:42,300

be most improved at six months and they

760

00:37:48,859 --> 00:37:44,670

seem to be returning to pre intervention

761

00:37:51,050 --> 00:37:48,869

levels at two years another study found

762

00:37:53,030 --> 00:37:51,060

greater improvements in lipid profile

763

00:37:55,310 --> 00:37:53,040

from participants on the low-carb

764

00:37:59,180 --> 00:37:55,320

ketogenic diet compared to a

765

00:38:02,089 --> 00:37:59,190

Mediterranean or low-fat diet conclusion

766

00:38:04,240 --> 00:38:02,099

the evidence seems conflicting and more

767

00:38:07,099 --> 00:38:04,250

research is needed to confirm results

768

00:38:10,550 --> 00:38:07,109

also physical activity has a known

769

00:38:12,560 --> 00:38:10,560

benefit to lipid profiles and may have

770

00:38:16,040 --> 00:38:12,570

contributed to the positive results

771

00:38:19,640 --> 00:38:16,050

claim number four the ketogenic diet

772

00:38:23,030 --> 00:38:19,650

will reduce your appetite some research

773

00:38:26,810 --> 00:38:23,040

has shown that ghrelin the appetite

774

00:38:30,579 --> 00:38:26,820

stimulating hormone is suppressed while

775

00:38:32,810 --> 00:38:30,589

participants were in ketosis have a once

776

00:38:33,530 --> 00:38:32,820

participant switch to the maintenance

777

00:38:37,910 --> 00:38:33,540

diet

778

00:38:40,490 --> 00:38:37,920

ghrelin levels rose significantly this

779

00:38:44,030 --> 00:38:40,500

would match the results observed in

780

00:38:46,130 --> 00:38:44,040

studies comparing ketogenic diets to

781

00:38:49,880 --> 00:38:46,140

other diets where initial weight loss

782

00:38:52,329 --> 00:38:49,890

was greater on the ketogenic diet but

783

00:38:56,589 --> 00:38:52,339

that was fired by greater weight regain

784

00:38:59,670 --> 00:38:56,599

even the most frenetic of ketogenic diet

785

00:39:03,480 --> 00:38:59,680

proponents medical doctor Andres

786

00:39:05,809 --> 00:39:03,490

Enfield concedes most people end up

787

00:39:09,420 --> 00:39:05,819

dipping in and out of ketosis

788

00:39:13,920 --> 00:39:09,430

semi-regularly anyway and it's a hard

789

00:39:16,620 --> 00:39:13,930

thing to always be in deep ketosis his

790

00:39:19,799 --> 00:39:16,630

solution to clients who follow the

791

00:39:21,780 --> 00:39:19,809

ketogenic diet but do not lose weight is

792

00:39:24,799 --> 00:39:21,790

to consider adding intermittent fasting

793

00:39:28,620 --> 00:39:24,809

to another client he provided these

794

00:39:32,030 --> 00:39:28,630

reassuring words an alternative can be a

795

00:39:37,260 --> 00:39:32,040

need for starvation that is rarely

796

00:39:40,200 --> 00:39:37,270

sustainable or empowering conclusion

797

00:39:43,770 --> 00:39:40,210

maybe the ketogenic diet does reduce

798

00:39:46,650 --> 00:39:43,780

appetite while you are in ketosis but

799

00:39:50,190 --> 00:39:46,660

this may not help maintain weight loss

800

00:39:53,970 --> 00:39:50,200

as weight regain mainly occurs in the

801  
00:39:57,150 --> 00:39:53,980  
maintenance period Romanian ketosis is

802  
00:39:59,780 --> 00:39:57,160  
hard and not recommended for the general

803  
00:40:02,660 --> 00:39:59,790  
public and we all seem to agree that

804  
00:40:08,390 --> 00:40:02,670  
starvation is not a sustainable solution

805  
00:40:13,260 --> 00:40:08,400  
and finally number 5 the ketogenic diet

806  
00:40:15,690 --> 00:40:13,270  
improves biomarkers for diabetes in the

807  
00:40:20,490 --> 00:40:15,700  
studies that reported the participants

808  
00:40:22,859 --> 00:40:20,500  
average hba1c an indication of how much

809  
00:40:26,339 --> 00:40:22,869  
sugar you've had in your blood over the

810  
00:40:28,589 --> 00:40:26,349  
past few months the results were not

811  
00:40:32,329 --> 00:40:28,599  
significantly different between the

812  
00:40:36,059 --> 00:40:32,339  
groups on a low-carb ketogenic diet or a

813  
00:40:38,130 --> 00:40:36,069

low-fat diet both followed the same

814

00:40:41,039 --> 00:40:38,140

trajectory as weight and waist

815

00:40:43,559 --> 00:40:41,049

circumference been at the lowest level

816

00:40:46,530 --> 00:40:43,569

at six months followed by an increase

817

00:40:50,730 --> 00:40:46,540

towards pre-intervention levels at two

818

00:40:52,950 --> 00:40:50,740

years conclusion to date the evidence

819

00:40:55,260 --> 00:40:52,960

does not demonstrate that the ketogenic

820

00:40:57,450 --> 00:40:55,270

diet is more successful than any other

821

00:41:01,980 --> 00:40:57,460

diet for long term reduction in

822

00:41:04,770 --> 00:41:01,990

biomarkers for diabetes there are some

823

00:41:07,799 --> 00:41:04,780

other concerns about the ketogenic diet

824

00:41:12,480 --> 00:41:07,809

and those include that a keto diet may

825

00:41:13,590 --> 00:41:12,490

be high in unhealthy saturated fats low

826  
00:41:16,290 --> 00:41:13,600  
in fiber

827  
00:41:19,110 --> 00:41:16,300  
which can affect heart health some

828  
00:41:21,870 --> 00:41:19,120  
chronic disease can increase bowel

829  
00:41:24,330 --> 00:41:21,880  
problems and risk of bowel cancer and

830  
00:41:27,150 --> 00:41:24,340  
that a keto diet may be missing

831  
00:41:30,390 --> 00:41:27,160  
important vitamins such as thiamine

832  
00:41:33,590 --> 00:41:30,400  
folate vitamin A E b6

833  
00:41:37,500 --> 00:41:33,600  
calcium magnesium iron and potassium

834  
00:41:40,350 --> 00:41:37,510  
there have also been some negative

835  
00:41:42,890 --> 00:41:40,360  
effects of the keto diet reported and

836  
00:41:46,830 --> 00:41:42,900  
these include fatigue constipation

837  
00:41:50,300 --> 00:41:46,840  
headache bad breath feeling sick

838  
00:41:53,240 --> 00:41:50,310

dizziness dehydration bowel problems

839

00:41:57,680 --> 00:41:53,250

high cholesterol kidney problems

840

00:42:00,660 --> 00:41:57,690

osteoporosis due to lack of calcium and

841

00:42:05,700 --> 00:42:00,670

rapid weight regain when normal diet

842

00:42:08,250 --> 00:42:05,710

regimes of the one study that I reviewed

843

00:42:11,840 --> 00:42:08,260

where the participants symptoms were

844

00:42:15,030 --> 00:42:11,850

recorded the group on the low-carb

845

00:42:18,330 --> 00:42:15,040

ketogenic diet reported significantly

846

00:42:22,620 --> 00:42:18,340

higher levels of bad breath constipation

847

00:42:26,190 --> 00:42:22,630

and dry mouth so skeptics as normal you

848

00:42:28,620 --> 00:42:26,200

will find general evidence based dietary

849

00:42:31,430 --> 00:42:28,630

recommendations for ensuring you receive

850

00:42:35,430 --> 00:42:31,440

all the nutrients required for health at

851  
00:42:38,190 --> 00:42:35,440  
WWE TLC o VA you if you're in Australia

852  
00:42:40,980 --> 00:42:38,200  
or on your country's Department of

853  
00:42:43,380 --> 00:42:40,990  
Health website anyone starting a

854  
00:42:46,050 --> 00:42:43,390  
ketogenic diet should do so under

855  
00:42:48,050 --> 00:42:46,060  
clinical supervision along with the help

856  
00:42:51,360 --> 00:42:48,060  
of an accredited practicing dietitian

857  
00:43:00,750 --> 00:42:51,370  
until next year skeptics I wish you love

858  
00:43:00,760 --> 00:43:10,410  
[Music]

859  
00:43:16,660 --> 00:43:13,809  
hi this is dr. Pamela gay from astronomy

860  
00:43:18,579 --> 00:43:16,670  
cast each week Fraser Cain and I take

861  
00:43:20,770 --> 00:43:18,589  
our listeners on a fact-based journey

862  
00:43:23,530 --> 00:43:20,780  
through the cosmos with our weekly

863  
00:43:26,319 --> 00:43:23,540

podcast we explain not just what we know

864

00:43:29,170 --> 00:43:26,329

but how we know what we know about this

865

00:43:31,630 --> 00:43:29,180

universe that we share check us out at

866

00:43:34,030 --> 00:43:31,640

astronomy cast calm and look for us in

867

00:43:37,850 --> 00:43:34,040

itunes google play and wherever you

868

00:43:51,900 --> 00:43:37,860

download podcasts see online

869

00:43:55,990 --> 00:43:51,910

[Music]

870

00:43:58,750 --> 00:43:56,000

now here's a story that was a stories of

871

00:44:02,260 --> 00:43:58,760

such an article that was published at

872

00:44:04,660 --> 00:44:02,270

BuzzFeed BuzzFeed calm links in this

873

00:44:06,670 --> 00:44:04,670

week's show notes and I can't vouch who

874

00:44:08,320 --> 00:44:06,680

this one folks I don't know how many of

875

00:44:10,270 --> 00:44:08,330

these are true I suspect all of them are

876

00:44:12,120 --> 00:44:10,280

but I don't know I guess in a way it

877

00:44:15,760 --> 00:44:12,130

doesn't matter too much it quite funny

878

00:44:19,360 --> 00:44:15,770

and this is along the lines of dumbest

879

00:44:24,030 --> 00:44:19,370

things anti-vaxxers actually said in

880

00:44:27,130 --> 00:44:24,040

2018 compiled by David stew Pyrrha and

881

00:44:32,890 --> 00:44:27,140

with a little help from Maynard we read

882

00:44:35,740 --> 00:44:32,900

on the plague somebody posted my point

883

00:44:38,710 --> 00:44:35,750

was the plague disappeared without a

884

00:44:42,880 --> 00:44:38,720

vaccine yeah because people died you an

885

00:44:44,860 --> 00:44:42,890

educated potato on the flu shot the flu

886

00:44:47,560 --> 00:44:44,870

is killing up to four thousand Americans

887

00:44:49,930 --> 00:44:47,570

a week this is why I refused to take the

888

00:44:52,870 --> 00:44:49,940

flu shot on health

889

00:44:55,660 --> 00:44:52,880

if vaccines were healthy you could put

890

00:44:58,270 --> 00:44:55,670

it on a spoon and eat it try it you'll

891

00:44:59,710 --> 00:44:58,280

die half broccoli was healthy you could

892

00:45:02,890 --> 00:44:59,720

put it in a syringe and inject it into

893

00:45:06,040 --> 00:45:02,900

your bloodstream try it you'll die on me

894

00:45:08,830 --> 00:45:06,050

Szell's when you realize measles

895

00:45:11,400 --> 00:45:08,840

protects against cancer you understand

896

00:45:15,640 --> 00:45:11,410

why the industry wants to prevent it on

897

00:45:18,640 --> 00:45:15,650

research friends I am desperate here

898

00:45:20,770 --> 00:45:18,650

I am a newly non vaccinator and I want

899

00:45:23,260 --> 00:45:20,780

to write about vaccination dangers for

900

00:45:26,860 --> 00:45:23,270

my final thesis in college however I

901  
00:45:29,860 --> 00:45:26,870  
have to use scholarly journals etc as my

902  
00:45:32,590 --> 00:45:29,870  
sources when I do a search deep into G s

903  
00:45:35,290 --> 00:45:32,600  
user library every article seems to be

904  
00:45:38,200 --> 00:45:35,300  
probe acts and nothing supporting my

905  
00:45:40,750 --> 00:45:38,210  
argument does anyone have some scholarly

906  
00:45:43,940 --> 00:45:40,760  
Doc's that I can use to prove my point

907  
00:45:46,670 --> 00:45:43,950  
effectively thank you all

908  
00:45:48,650 --> 00:45:46,680  
love heart blood heart the fact that you

909  
00:45:50,900 --> 00:45:48,660  
cannot find any journals to back up your

910  
00:45:54,290 --> 00:45:50,910  
viewpoint may suggest you need to

911  
00:45:57,859 --> 00:45:54,300  
reassess your viewpoint on chickenpox

912  
00:46:02,480 --> 00:45:57,869  
can anybody answer me why kids don't get

913  
00:46:07,040 --> 00:46:02,490

chickenpox no more or was we experiments

914

00:46:11,720 --> 00:46:07,050

as kids I need answers vaccinations on

915

00:46:14,930 --> 00:46:11,730

giving birth Texas 14 year old virgin

916

00:46:17,750 --> 00:46:14,940

falls pregnant after flu shot he'll know

917

00:46:21,920 --> 00:46:17,760

why myself all my kids will never get

918

00:46:25,010 --> 00:46:21,930

the flu shot one of many reasons on the

919

00:46:28,280 --> 00:46:25,020

government let's not forget about

920

00:46:30,770 --> 00:46:28,290

anti-vaxxers there have been multiple

921

00:46:35,079 --> 00:46:30,780

scientific studies on the dangers of

922

00:46:37,940 --> 00:46:35,089

vaccinations show me one please

923

00:46:39,579 --> 00:46:37,950

government controls the internet now so

924

00:46:43,849 --> 00:46:39,589

I can't find what I'm looking for

925

00:46:46,220 --> 00:46:43,859

thanks for trying on polio I don't

926

00:46:48,170 --> 00:46:46,230

believe that one single vaccine is bad I

927

00:46:52,940 --> 00:46:48,180

believe that a hundred and twenty eight

928

00:46:56,000 --> 00:46:52,950

vaccines by age 12 is bad based on based

929

00:46:58,130 --> 00:46:56,010

on we vaccine more than any other

930

00:47:00,770 --> 00:46:58,140

country in the world and are slowly

931

00:47:04,130 --> 00:47:00,780

declining on our life expectancy in the

932

00:47:06,859 --> 00:47:04,140

United States where are you getting 128

933

00:47:10,670 --> 00:47:06,869

everything I've read is seventy doses of

934

00:47:14,450 --> 00:47:10,680

16 vaccines over 18 years you know

935

00:47:16,700 --> 00:47:14,460

what's worse than 70 doses polio polio

936

00:47:21,470 --> 00:47:16,710

hasn't been a factor in 60 years at

937

00:47:24,740 --> 00:47:21,480

least why is that on outbreaks with the

938

00:47:27,740 --> 00:47:24,750

headline CDC monitoring measles outbreak

939

00:47:29,930 --> 00:47:27,750  
in 21 states including Michigan

940

00:47:31,099 --> 00:47:29,940  
please don't vaccinate I don't want my

941

00:47:35,359 --> 00:47:31,109  
kids getting the measles

942

00:47:39,770 --> 00:47:35,369  
that's not how vaccines work on science

943

00:47:41,900 --> 00:47:39,780  
the meme says did you know that vaccine

944

00:47:44,809 --> 00:47:41,910  
ingredients are considered poisonous on

945

00:47:48,500 --> 00:47:44,819  
their own but when mixed and injected

946

00:47:51,339 --> 00:47:48,510  
they become magically safe hashtag

947

00:47:55,120 --> 00:47:51,349  
because a science with the dollar sign

948

00:47:56,930 --> 00:47:55,130  
sodium poisonous chlorine poisonous

949

00:48:01,430 --> 00:47:56,940  
sodium chloride

950

00:48:04,849 --> 00:48:01,440  
not poisonous actual science on the

951  
00:48:07,250 --> 00:48:04,859  
Bible with the headline anti-vaxxer

952  
00:48:09,109 --> 00:48:07,260  
warrior mom the effect scenes are so

953  
00:48:13,579 --> 00:48:09,119  
great why aren't they mentioned in the

954  
00:48:16,069 --> 00:48:13,589  
Bible on playing God with three

955  
00:48:18,470 --> 00:48:16,079  
unvaccinated adult children and three

956  
00:48:20,780 --> 00:48:18,480  
unvaccinated granddaughters all

957  
00:48:22,550 --> 00:48:20,790  
extremely healthy I will continue to

958  
00:48:25,309 --> 00:48:22,560  
question everything I put into my body

959  
00:48:27,770 --> 00:48:25,319  
as they will there is plenty of evidence

960  
00:48:30,050 --> 00:48:27,780  
to show us that quote playing God in

961  
00:48:32,990 --> 00:48:30,060  
quote with the human body and without

962  
00:48:35,510 --> 00:48:33,000  
planet is dangerous the human body is

963  
00:48:39,980 --> 00:48:35,520

self developing self maintaining and

964

00:48:42,829 --> 00:48:39,990

self healing it needs no help just no

965

00:48:46,849 --> 00:48:42,839

interference and yet you're wearing

966

00:48:49,970 --> 00:48:46,859

glasses in your profile pic on getting

967

00:48:52,490 --> 00:48:49,980

sick I wish I would have never had been

968

00:48:55,400 --> 00:48:52,500

given the shot I've had it ever since I

969

00:48:57,440 --> 00:48:55,410

was a baby I did an experiment on myself

970

00:49:00,380 --> 00:48:57,450

and didn't get the flu shot for three

971

00:49:03,200 --> 00:49:00,390

years in a row got the flu super bad

972

00:49:06,740 --> 00:49:03,210

every single year and ended up in

973

00:49:08,390 --> 00:49:06,750

hospital so sadly I must get it even

974

00:49:12,140 --> 00:49:08,400

though I don't fully trust it

975

00:49:14,180 --> 00:49:12,150

modern medicine for you lol you know

976

00:49:16,910 --> 00:49:14,190

I've never heard this before are you

977

00:49:19,819 --> 00:49:16,920

saying because you got the flu shot as a

978

00:49:22,460 --> 00:49:19,829

kid you now have to get it each year or

979

00:49:25,130 --> 00:49:22,470

else you get the flu yeah I never get

980

00:49:28,010 --> 00:49:25,140

the flu when I get the shot but if I

981

00:49:32,390 --> 00:49:28,020

don't get the shot I get the flu really

982

00:49:35,809 --> 00:49:32,400

badly on mercury mercury in seafood

983

00:49:36,410 --> 00:49:35,819

equals not okay especially because you

984

00:49:38,900 --> 00:49:36,420

are pregnant

985

00:49:42,170 --> 00:49:38,910

mercury injected into babies bodies

986

00:49:43,569 --> 00:49:42,180

equals okay not it does not work that

987

00:49:47,049 --> 00:49:43,579

way

988

00:49:48,640 --> 00:49:47,059

things idiots say isn't there a distinct

989

00:49:51,549 --> 00:49:48,650

difference in the mercury chemical

990

00:49:54,969 --> 00:49:51,559

makeup in vaccines and in nature fish

991

00:49:57,999 --> 00:49:54,979

etc I don't know about makeup since I

992

00:50:01,359 --> 00:49:58,009

literally have never even owned makeup

993

00:50:03,449 --> 00:50:01,369

in my life but CDC swears up and down it

994

00:50:08,289 --> 00:50:03,459

is safe in vaccines because it is a

995

00:50:11,469 --> 00:50:08,299

quote preservative end quote well how is

996

00:50:15,099 --> 00:50:11,479

it okay there but not okay as a

997

00:50:18,009 --> 00:50:15,109

preservative in food on evidence don't

998

00:50:20,440 --> 00:50:18,019

overmedicate your dog vets pushed this

999

00:50:23,859 --> 00:50:20,450

stuff like doctors push vaccinations

1000

00:50:26,440 --> 00:50:23,869

that's a stretch zero scientific

1001  
00:50:27,969 --> 00:50:26,450  
evidence human vaccines do harm I sleep

1002  
00:50:30,489 --> 00:50:27,979  
well at night knowing I won't die from

1003  
00:50:31,170 --> 00:50:30,499  
rubella or polio but that's just me call

1004  
00:50:35,019 --> 00:50:31,180  
me crazy

1005  
00:50:36,940 --> 00:50:35,029  
do some research please do share I did a

1006  
00:50:40,140 --> 00:50:36,950  
four-year medical degree but maybe you

1007  
00:50:43,150 --> 00:50:40,150  
know more than me that says it all and

1008  
00:50:46,120 --> 00:50:43,160  
those gems come to us from BuzzFeed I'll

1009  
00:50:48,969 --> 00:50:46,130  
link to it in this week's show notes and

1010  
00:50:51,309 --> 00:50:48,979  
true or not I suspect they were true not

1011  
00:50:53,920 --> 00:50:51,319  
true or not it is typical of some of the

1012  
00:51:14,949 --> 00:50:53,930  
things anti-vaxxers actually say

1013  
00:51:21,319 --> 00:51:17,299

thank you for listening to the skeptic

1014

00:51:24,199 --> 00:51:21,329

zone for 2018 I don't want to predict

1015

00:51:26,150 --> 00:51:24,209

what's going to happen in 2019 the only

1016

00:51:29,359 --> 00:51:26,160

thing I will predict is there will

1017

00:51:32,269 --> 00:51:29,369

probably be another skeptic zone episode

1018

00:51:35,209 --> 00:51:32,279

coming up and if all goes well there'll

1019

00:51:38,959 --> 00:51:35,219

be another roughly 52 skeptic zone

1020

00:51:41,620 --> 00:51:38,969

episodes coming up for 2019 and the only

1021

00:51:44,809 --> 00:51:41,630

reason there are so many skeptics tones

1022

00:51:47,059 --> 00:51:44,819

coming up and have been in the past well

1023

00:51:49,939 --> 00:51:47,069

partly because of my wonderful reporters

1024

00:51:52,189 --> 00:51:49,949

Mandee Lee Noble and Maynard and Heidi

1025

00:51:55,789 --> 00:51:52,199

Robertson who you heard in this week's

1026

00:51:58,459 --> 00:51:55,799

episode but largely it's due to people

1027

00:52:01,999 --> 00:51:58,469

like you who contribute via patreon or

1028

00:52:06,169 --> 00:52:02,009

PayPal at skeptic zone TV without funds

1029

00:52:08,479 --> 00:52:06,179

the show simply could not continue so a

1030

00:52:11,029 --> 00:52:08,489

big end of you thank you to all those

1031

00:52:14,509 --> 00:52:11,039

people who do in fact contribute to the

1032

00:52:16,699 --> 00:52:14,519

skeptic zone but for this year

1033

00:52:24,079 --> 00:52:16,709

this is Richard Saunders signing off

1034

00:52:25,880 --> 00:52:24,089

from the Bay Area San Francisco you've

1035

00:52:30,909 --> 00:52:25,890

been listening to the skeptic zone

1036

00:52:34,489 --> 00:52:30,919

podcast please visit our website at WWDC

1037

00:52:37,279 --> 00:52:34,499

for show notes contacts and to access

1038

00:52:40,909 --> 00:52:37,289

the bat catalog of episodes going back

1039

00:52:44,539 --> 00:52:40,919

to 2008 you can follow the skeptic zone

1040

00:52:46,939 --> 00:52:44,549

podcast on twitter at skeptic zone visit

1041

00:52:47,829 --> 00:52:46,949

our facebook page or leave a review on

1042

00:52:50,509 --> 00:52:47,839

itunes

1043

00:52:53,899 --> 00:52:50,519

you can also support the skeptic zone

1044

00:52:56,620 --> 00:52:53,909

via patreon or PayPal the skeptic zone

1045

00:52:58,999 --> 00:52:56,630

podcast is an independent production

1046

00:53:01,130 --> 00:52:59,009

reviews and opinions expressed on the

1047

00:53:03,469 --> 00:53:01,140

skeptic zone are not necessarily those

1048

00:53:05,260 --> 00:53:03,479

of Australian skeptics or any other

1049

00:53:18,920 --> 00:53:05,270

skeptical organization

1050

00:53:24,320 --> 00:53:21,090

ensuring they are protected against

1051

00:53:27,510 --> 00:53:24,330

diseases that could but oh my god that's

1052

00:53:35,450 --> 00:53:27,520

those are playing with these chicken

1053

00:53:35,460 --> 00:53:41,810

sorry I'll give it back to you no just

1054

00:53:51,780 --> 00:53:45,150

calm yourself all right you got to stay

1055

00:53:57,900 --> 00:53:51,790

out there no you got to go out go on