From Tom Kindlon (tomkindlon@oceanfree.net or tomkindlon@gmail.com)

(*This appears longer than it should be because I have appended my April submission below in green (Appendix 2) as well as 1440 signatures and comments from the petition complaining against the CDC's use of the "empiric definition" (Reeves, 2005). Most of the rest of the text is made up with the results from 10 ME/CFS surveys. The rest of the text is not that long (2881 words) *)

I would first like to thank you for the opportunity to make these comments. Unfortunately I have not been able to allocate as much time as I would like to the task. So in my main submission I am not going to repeat many of the comments I made in my two oral statements to the April 27 meeting on the CDC's draft research program which I wrote up and submitted in writing before the April 30 deadline (appended below in green).

I should say that I have had two letters published in high impact journals (the British Medical Journal and Brain) on the subject of Chronic Fatigue Syndrome (CFS) in the last year. So although unfortunately because of ill-health, I have not been able to reach my potential in terms of academic qualifications [I scored 1460 in the SATs in 1991 (i.e. before they were re-graded upwards, scoring the top percentile in both subjects); I became a member of MENSA with an IQ in the top percentile in 1990 and in the last exams I did in college before severe disability struck (2nd year, Mathematical Science, Trinity College Dublin)) I got all (6) firsts, I have shown I am able to make intelligent comment.

Given the CDC is now moving into the area of ME/CFS interventions and particularly the area of treatment recommendations for others, I plan to share some information, thoughts and analysis on the treatment/ management modality of Graded Exercise Therapy (GET) and if time allows, also Cognitive Behavioural Therapy (CBT) based on GET (given CBT is recommended for many conditions in medicine, not all forms of CBT are the same).

I will also give some information on the petition I set up on April 15, "CDC CFS research should not involve the empirical definition (2005)" http://www.ipetitions.com/petition/empirical defn and CFS research.

I mentioned this before in my oral submission but the number of signatures has now increased to 1431, with many people giving comments which can be read at the site (more people have told me they gave comments but for some reason to do with the software of the site (I believe) they did not appear).

The safety of treatments and interventions is one of the most important issues, if not the most important issue in medicine. The ideas behind the phrase "First do no harm" are something that are inculcated in medical students around the world. As Wikipedia says (on the phrase), 'Another way to state it is that "given an existing problem, it may be better to do nothing than to do something that risks causing more harm than good."'.

With many interventions such as pharmaceutical drugs, there are mechanisms in place so that if adverse reactions occur, even after a treatment has been approved, this information is noted and attempts are made to collate the information. For example, in the UK (and perhaps elsewhere in the world) a yellow card scheme where either prescribing professionals or patients themselves can report adverse reactions. Drugs can often be taken off the market years after they were first "released" when it is discovered that they can cause adverse reactions

Unfortunately, with non-pharmaceutical interventions, such options are not there. So what is the next best thing? Using the information from patient surveys is the obvious answer. Later I will give some information from patient surveys about high rates of adverse reactions reported following the use of (i) Graded Exercise Therapy (GET) and (ii) Cognitive Behavioural Therapy (CBT) based on GET in the UK and indeed some other countries in ME/CFS patients.

The CDC, amongst other things, plans to begin "providing the most current evidence-based information concerning CFS to federal, state, and local public health authorities, related government agencies, and HMOs and building long-term relationships with government and non-government agencies."

I am concerned that these plans may involve promoting potentially dangerous treatments: (i) Graded Exercise Therapy (GET) and (ii) Cognitive Behavioural Therapy (CBT) based on GET.

I also concerned that information will not be passed on about adverse reactions, that have been reported by patients using these treatment modalities. There are plausible scientific reasons why people can be suffering adverse reactions to treatments which encourage increases in activity: there are numerous studies that show that the response to exercise in ME/CFS is unusual. The abnormal response to exercise is not restricted to intense exercise. It has also been noted in a study which measured the effect of the journey to the testing centre (White, JoCFS, 2005). An exercise test is like a trial of a high dose of a drug.

It is important that professionals are told of the abnormal response to exercise in ME/CFS.

It is also important that patients are given the risks associated with treatments. This does not seem to be occurring routinely at the moment in some places around the world where GET and CBT based on GET is "offered". This means patients can not give informed consent to the treatments they are trying. Patients trying pharmaceutical agents are given information, so why not patients with ME/CFS when they are being prescribed treatments? This suggests that people with ME/CFS are being treated like second class citizens, not worthy of the protections that are offered to other patients. This needs to change with anything the CDC recommends.

It also appears likely that the effectiveness of these treatments will be hyped.

For example, Bill Reeves at the May 2009 CFSAC meeting said: "CBT/GET is not the cure for everybody - nobody knows how many it is - it probably applies to a subset."

But where is the evidence from the literature that GET is a cure for anybody with CFS? I am unaware of any.

And where is evidence that CBT based on GET is a cure for anybody with CFS? Few studies have made such claims. To the best of my knowledge these have used unsatisfactory definitions of recovery such as a patient being considered "recovered" or "fully recovered" if they didn't score in the low percentiles for certain self-rated questionnaires [such as the 85th percentiles for the definition of "full recovery" in Knoop (2007) (although some of patients actually scored in a lower percentile on one of the questionnaires and were still considered "fully recovered"]. These are very unsatisfactory definitions of recovery but I fear that because of the influence of people like Peter White and Gijs Bleijenberg who hype these treatments' effectiveness, official CDC literature will be talking about these treatments leading to recovery in some.

It is generally accepted that CFS is a heterogeneous condition. In particular, few if any researchers would say that CFS as defined by the "empiric definition" (Reeves, 2005) represents a homogeneous condition. However for some reason Peter White despite recognising that CFS is a heterogeneous condition, believes that with regard to treatment CFS should be regarded as homogeneous (sample reference: RSM lecture, April 2008). This is a potentially dangerous belief to promulgate especially given all the adverse reactions that have been reported with regard to GET and CBT based on GET. I hope that the CDC will not use such lazy constructs and will make clear when discussing CFS with regards to treatments (and, in particular, with regards to GET and CBT based on GET) that CFS should be considered as heterogeneous with regards to the effectiveness of treatments. Not everyone has shown the same results in clinical trials as well as surveys so until more is known about CFS, heterogeneity should also be mentioned in the context of treatments.

As I understand it, the CDC has largely been depending on information from Peter White to gain information on the situation in the UK. A major problem with this is that I do not recall hearing or reading Peter White informing readers or audiences the percentages that have reported adverse reactions with regards to GET and CBT based on GET in surveys and the like. As I have said, with no formal method for reporting adverse reactions to non-pharmaceutical modalities such as GET and CBT based on GET, the results of surveys take on a larger importance so I will give some information on these in a moment. I have read people suggest that Peter White hypes the effectiveness of GET and CBT based on GET and downplays any risks because of his connections with the insurance industry. I remain to be convinced by arguments based solely on money, although I do think it is important that the CDC reports these interests in the same way that it would be expected to report individuals interests in pharmaceutical agents. I think Peter White has taken an approach not suitable for clinical medicine and simply ignored information and data (on the issue of adverse reactions) that does not fit with his pre-existing theories.

Anyway, to move to some numerical data, here are the results of some numerical data from surveys of patients.

Survey 1: (UK) Action for ME (2001)

In the UK, the Chief Medical Officer (CMO) (i.e. a government job somewhat similar to the position of Surgeon General in the US) set up in 1999 a working group to report on the area of "CFS/ME".

Amongst other things, when they reported in 2002, the report included the following data from a survey.

Therapy*	Respondents	Helpful	No change	Made worse
Drug medication for pain	1394	4 61%	28%	11%
Drug medication for sleep	1300	67%	17%	16%
Pacing your activities	2180	89%	9%	1%
Graded exercise	1214	1 34%	15%	50%
Diet changes	1864	4 65%	32%	3%
Nutritional supplements	1953	61%	36%	3%
Rest, including bed rest	2162	91%	8%	1%
Cognitive Behavioural Therapy	285	5 7%	67%	26%
Other	878	3 76%	11%	14%

^{*}Not all the respondents experienced each treatment approach (Action for ME Membership Survey, 2001. 2338 respondents in total)

This data was then included in the Full NICE Guidance on CFS/ME (Page 95 of 317):

Helpful	No ch	nange	Made worse	
Drug medication for pain	61%	28%	11%	
Drug medication for sleep	67%	17%	16%	
Pacing your activities	89%	9%	2%	
Graded exercise	34%	16%	50%	
Diet changes	65%	32%	3%	
Nutritional supplements	62%	36%	3%	
Rest, including bed-rest	91%	8%	1%	
Cognitive behavioural therapy	7%	67%	26%	
Other	75%	11%	14%	

[Aside: there are three changes by 1% from the figures given in the CMO Report - these are on "occasions" when the first numbers did not add to 100% but with the changes, the numbers all added to 100%. Somebody presumably thought they need to be changed. Due to rounding, the numbers do not need to add to 100% to be accurate, so I believe the first set of figures should be considered the most accurate data]

As one can see, Graded Exercise Therapy had a terrible safety profile in this data – 50% of 1214 people reported being made worse – that's the equivalent of 607 reports of adverse reactions! CBT had the second worst safety profile with 26% reporting being made worse by it. But this was for a smaller number of patients (285) than GET, so is equivalent to 74 reports of adverse reactions.

Pacing and rest (including bed rest) had both the highest rates of people reporting they were helpful (89% and 91%) and also the lowest rates of adverse reactions – just 1% for each (note: as I say, the first set of data appears to be the most accurate one with the second data having being adjusted to add to 100%).

Survey 2: (UK) ME Association (2009)

The UK's ME Association recently organised possibly the largest ever survey of people with ME/CFS. In its Spring 2009 magazine, it included data on 25 therapies. Yet again, Graded Exercise Therapy (GET) had the highest rates of adverse reactions with a whopping 56.5% of people reporting being made worse by the intervention:

Graded Exercise Therapy

906 replies:

Made much worse: 33.1% Slightly worse: 23.4% No change: 21.4% Improved: 18.7%

Greatly improved: 3.4%

The related treatment modality of physiotherapy (i.e. therapy provided by a physical therapist) also had a high rate of adverse reactions (32.8% in total):

Physiotherapy 862 replies:

Made much worse: 15.7% Slightly worse: 17.1% No change: 36.7% Improved: 27.0% Greatly improved: 3.5% Cognitive Behaviour Therapy (CBT) had a lower but still significant rate of adverse reactions 19.5% or 194 out of 997 cases:

Cognitive Behaviour Therapy (CBT)

Made much worse: 7.9% Slightly worse: 11.6% No change: 54.6% Improved: 27.0%

Greatly improved: 3.4%

CBT also came very low (21st of 25) on the table of treatments based on the percentage of people helped by them. The only treatments below them were Imunovir (which had only being tried by 62 patients, the lowest number of the 25 treatments) (25.8% reporting it helped them), NADH and Graded Exercise Therapy.

The treatment with the highest percentage of people saying it helped was pacing of activities:

Pacing

2137 replies

Made much worse: 1.2% Slightly worse: 3.5% No change: 24.1% Improved: 59.6%

Greatly improved: 11.6%

Pacing also had one of the lowest rates of people saying they were made worse by the treatment.

Survey 3: (UK) 25% ME Group (2004)

In the UK, there is an ME charity specifically for severely affected patients with ME, called the 25% ME Group.

It conducted a survey of its members which got a response rate of 66% or 437 replies.

This is a direct quote from their report where they quote the statistics i.e. out of 170 patients who had tried **Graded Exercise Therapy** (**GET**), 139 had been made worse by it!

"By far the most unhelpful form of treatment was considered to be Graded Exercise Therapy (GET). This is a finding that may surprise some readers, given the current medical popularity of this approach. However, these patients' perceptions are supported by data from previous experience: of the 39% of our members who had actually used Graded Exercise Therapy, a shocking 82% reported that their condition was made worse by this treatment. On the basis of our members' experiences we question whether GET is an appropriate approach for

patients with ME. It is worth noting that some patients were **not severely affected before trying GET**. Thus, it is not only people with severe ME who may be adversely affected by this form of treatment."

Survey 4: "Scotland M.E./CFS Scoping Exercise Report" (October 2007)

With Section 16b Funding through The Scottish Government, Action for ME produced a report: "Scotland M.E./CFS Scoping Exercise Report" (October 2007)

"In total 564 people with M.E. were sent a questionnaire (510 sent hard copies, 54 electronic versions). 399 completed questionnaires were received which represents a 71% return." (Page 8)

Table (Page 9)

Treatment	Helpful	no effect	made me worse	didn't try
CBT	15.5%	17.5%	7%	60%
GET	5%	6%	32%	57%
Graded Acti	vity18%	8%	30%	44%
Pacing 77% 8.5% 3.5% 11%				

Translating these percentages into percentages solely based on people who had actually tried a treatment (more interesting figures, I think most people would agree), would give the following figures (the actual figures may have been a tiny bit different because of rounding):

---CBT

Numbers Tried: 160

Helpful: 38.75% (=15.5/40) (62) No effect: 43.75% (=17.5/40) (70) Made me worse: 17.5% (=7/40) (28)

GET (i.e. Graded Exercise Therapy)

Numbers Tried: 172

Helpful: 11.63% (=5/43) (20) No effect: 13.95% (=6/43) (24)

Made me worse: 74.42% (=32/43) (128)

Graded Activity

Numbers Tried: 224

Helpful: 32.14% (=18/56) (72) No effect: 14.29% (=8/56) (32)

Made me worse: 53.57% (=30/56) (120)

Pacing

Numbers Tried: 298

Helpful: 86.52% (=77/89) (258) No effect: 9.55% (=8.5/89) (28)

Made me worse: 3.93% (=3.5/89) (12)

A few proponents of GET have tried to say that figures from surveys are somehow not significant because we don't know whether the people did Graded Exercise Therapy under a professional or not. Firstly surveys 5 and 6 (below) show that the evidence isn't there to show that doing these treatments under a specialist is safer. Also the fact remains that GET is like an "over-the-counter" drug. People will try it if information is put out that it is an effective treatment either under a professional or by themselves. Which means promoting it as a treatment for ME/CFS risks damaging people's health.

Survey 5: (UK) Action for ME (2003)

Action for ME in 2003 wanted to follow up on its previous survey to see whether changes were occurring with regards to members' experiences of treatments. It restricted responses to treatments received over the previous three years so that the results would not overlap with a previous survey. 550 patients were sent a questionnaire, "your experiences", with 354 people responding (a response rate of 64%).

List of results for people who did GET broken down by the practitioner:

Under a Physio:

Negative 12 (67%) Neutral 0 (0%) Positive 6 (33%)

Under an OT:

Negative 6 (100%) Neutral 0 (0%) Positive 0 (0%)

Under a Doctor:

Negative 3 (27%) Neutral 1 (9%) Positive 7 (64%)

Under a Behavioural Therapist:

Negative 1 (25%) Neutral 1 (25%) Positive 2 (50%)

Gym:

Negative 3 (100%) Neutral 0 (0%) Positive 0 (0%)

No Professional:

Negative 1 (8.33%) Neutral 4 (33%) Positive 7 (58%) With regard to this group the authors of the report say: "Had NO professional input (had they therefore paced themselves?) - mostly with positive outcomes"

If one combines

Under a physio + Under an OT + Under a doctor + Under a behavioural therapist, to get a figure for under a professional: Negative 22 (56.41%) Neutral 2 (5.13%) Positive 15 (38.46%)

So those who did GET under a professional had much higher rates of adverse reactions.

Survey 6: (UK) Action for ME/Association for Youth with ME (2008):

This is another large survey, with 2763 patients with ME or CFS in the UK responding to a questionnaire which asked about people's experiences of treatments over the last three years (to avoid overlap with other surveys Action for ME had undertaken).

It found that of 699 who said they'd tried Graded Exercise Therapy, 34% said they'd been made worse by it compared to 45% who said they'd been helped and 21% who said it made no difference.

The contention that people would not have being made worse by a treatment if they had done the treatment under specialist supervision, is not backed up by the data from this study.

In this study patients were asked who provided the GET treatment. 567 answered this question (i.e. 132 did not). 181 (31.92%) of these said it had made them worse compared to 276 (48.68%) who said it helped and 110 (19.40%) who said it made no difference.

335 of these 567 patients said they had done the management strategy under an "NHS specialist". 111 (31.27%) of this group said they'd been made worse compared to 162 (45.63%) who said they'd been helped and 82 (23.10%) who said it made no difference.

So you can see that a similar percentage of people were made worse by GET who had done it under an NHS Specialist as those who had not, so doing it under an NHS specialist did not reduce the rate of adverse reactions.

So a large proportion of patients in the UK have experienced adverse reactions for trying Cognitive Behaviour Therapy (CBT) and in particularly Graded Exercise Therapy (GET). However it is my experience from reading Peter White's writings and hearing him talk that he does not inform people of this information.

Given the seriousness of the issue, I feel it would irresponsible if the CDC allows Peter White to be the only representative from the UK.

Suggestions for others on the ground who are not in denial of the issue of adverse reactions from GET (like Peter White appears to be) include: Charles Shepherd MD charles.c.shepherd@btinternet.com; Ellen Goudsmit PhD CPsychol AFBPsS (a Chartered Health Psychologist) ellengoudsmit@HOTMAIL.COM; Abhijit Chaudhuri DM MD PhD FACP FRCP (a consultant neurologist) chaudhuria@gmail.com; Neil Abbot MSc PhD (Operations Director, ME Research UK) Neil.Abbot@pkavs.org.uk and William Weir MD (an infectious disease consultant who ran an NHS clinic for ME for a number of years – I don't have an Email address at the time of writing but he can be contacted through his practice at: +44-207-467-8478 (i.e. from the US: 00-44-207-467-8478). All of these five professionals have published in the area and been in the area for over 10 years – I think Dr William Weir is in the area for approximately 20 years and Drs Shepherd and Goudsmit for over 20 years. Drs Chaudhuri and Goudsmit did their PhDs in the area.

Surveys from other countries:

The 6 above surveys are from the UK. I have information on some surveys undertaken by local groups in the UK which would also report high rates of adverse reactions both from CBT and especially GET.

However reports of adverse reactions are not restricted to the UK.

Gijs Bleijenberg PhD is a Dutch psychologist which the CDC has worked with. I fear he will not have shared with the CDC or others results of surveys of patients which show a somewhat different picture to the studies he has published.

Survey 7:

Koolhaas et al (2008/2009)

*Majority of ME/CFS patients negatively affected by Cognitive Behaviour Therapy*** (From: http://listserv.nodak.edu/cgi-bin/wa.exe?A2=ind0803A&L=CO-CURE&P=R647&I=-3)

To the best of my knowledge, this was presented at the 2009 IACFS/ME conference by Dr Van Hoof.

The following summary is from page 4 of the Dutch-language study.

http://home.planet.nl/~koolh222/cgtbijmecvsvanuitperspectiefpatient2008.pdf

Cognitieve gedragstherapie bij het chronische vermoeidheidssyndroom (ME/CVS) vanuit het perspectief van de patiënt

Drs. M.P. Koolhaas, H. de Boorder, prof. dr. E. van Hoof

Date: February 2008

ISBN: 978-90-812658-1-2

The Netherlands

SUMMARY

*Background

*In recent years, Chronic Fatigue Syndrome, also known as Myalgic Encephalomyelitis (ME/CFS), has been getting a lot of attention in scientific literature. However its aetiology remains unclear and it has yet to be clarified why some people are more prone to this condition than others. Furthermore, there is as yet no consensus about the treatment of ME/CFS. The different treatments can be subdivided into two groups, the pharmacological and the psychosocial therapies. Most of the scientific articles on treatment emphasize the psychosocial approach.

The most intensively studied psychological therapeutic intervention for ME/CFS is cognitive behaviour therapy (CBT). In recent years several publications on this subject have been published. These studies report that this intervention can lead to significant improvements in 30% to 70% of patients, though rarely include details of adverse effects. This pilot study was undertaken to find out whether patients' experiences with this therapy confirm the stated

percentages. Furthermore, we examined whether this therapy does influence the employment rates, and could possibly increase the number of patients receiving educational training, engaged in sports, maintaining social contacts and doing household tasks.

*Method

*By means of a questionnaire posted at various newsgroups on the internet, the reported subjective experiences of 100 respondents who underwent this therapy were collected. These experiences were subsequently analysed.

*Results

*Only 2% of respondents reported that they considered themselves to be completely cured upon finishing the therapy. Thirty per cent reported 'an improvement' as a result of the therapy and the same percentage reported no change. Thirty-eight percent said the therapy had affected them adversely, the majority of them even reporting substantial deterioration. Participating in CBT proved to have little impact on the number of hours people were capable of maintaining social contacts or doing household tasks. A striking outcome is that the number of those respondents who were in paid employment or who were studying while taking part in CBT was adversely affected. The negative outcome in paid employment was statistically significant. CBT did, however, lead to an increase in the number of patients taking up sports.

A subgroup analysis showed that those patients who were involved in legal proceedings in order to obtain disability benefit while participating in CBT did not score worse than those who were not. Cases where a stated objective of the therapy was a complete cure, did not have a better outcome. Moreover, the length of the therapy did not affect the results.

*Conclusions

*This pilot study, based on subjective experiences of ME/CFS sufferers, does not confirm the high success rates regularly claimed by research into the effectiveness of CBT for ME/CFS. Over all, CBT for ME/CFS does not improve patients' well-being: more patients report deterioration of their condition rather than improvement. Our conclusion is that the claims in scientific publications about the effectiveness of this therapy based on trials in strictly controlled settings within universities, has been overstated and are therefore misleading. The findings of a subgroup analysis also contradict reported findings from research in strictly regulated settings.

Survey 8: Survey of 3 Dutch ME/CFS patient organizations (December 2008):

3 Dutch ME/CFS patient organisations published in December 2008 at: http://www.nivel.nl/pdf/Rapport-draagvlakmeting-CVS-ME-2008.pdf the results of a large survey they undertook. Following the link, one can see the questionnaire that was used.

Table 2.1 numbers of sent questionnaires and responses returned to the patients' associations

Number sent: 740

Total number of responses: 449 % response rate (gross): 60.7%

Number of filled in questionnaires: 412

% Net response rate: 55.7%

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(Rough) Translation into English of the results tables from a large survey of the membership of three Dutch ME/CFS patient organisations (part 2 of 2)

Table 4.10 Treatment or accompaniment/support/management concerning the diagnosis ME/CFS and the impact experienced of that treatment or accompaniment/support

Treatment or accompaniment/support/management

Column 1: % that has had (the) treatment

Column 2: Number of those that have answered

Column 3: Impact: After (i.e. because of) the treatment, improved

Column 4: No impact

Column 5: Impact: After (i.e. because of) the treatment, disimproved

- Diet 65,2% n=251 50,2% 43,8% 6,0%
- Homoeopathy 64,6% n=247 30,8% 62,8% 6,5%
- Physiotherapy 52,4% n=203 36,9% 41,9% 21,2%
- Vitamin B12 48,2% n=184 32,1% 63,0% 4,9%
- Psychotherapy (not CBT), Psychological support 46,1% n=169 33,1% 60,9% 5,9%
- Management based on trying to have a balance of rest and activity 44,2% n=172 57,0% 33,7% 9,3%
- Antidepressants 43,0% n=165 32,7% 36,4% 30,9%

- Carnitine 40,9% n=156 37,2% 53,8% 9,0%
- Melatonin 38,0% n=146 32,9% 50,7% 16,4%
- Graded Activity/Exercise Therapy 37,3% n=142 43,0% 23,9% 33,1%
- Painkillers 37,0% n=138 47,1% 47,8% 5,1%
- Cognitive Behavioural Therapy (CBT) 29,9% n=115 30,4% 42,6% 27,0%
- oefentherapie (I think this is a cross between physiotherapy and the Alexander Technique) 27,0% n=102 20,6% 42,2% 37,3%
- Herbal Medicine 26,7% n=97 28,9% 61,9% 9,3%
- Bed-rest 11,7% n=45 48,9% 44,4% 6,7%
- Participation at a rehabilitation centre 10,2% n=40 45,0% 35,0% 20,0%
- Immunological therapy 7,7% n=25 44,0% 40,0% 16,0%
- Neurofeedback 3,8% n=14 35,7% 57,1% 7,1%

To summarise the data here for GET/GAT, CBT and Physiotherapy in a way that is easier to read

The results for Graded Activity/Exercise Therapy were:

142 respondents

Improved: 61 (43.0%) No impact: 34 (23.9%)

Disimproved/Made worse: 47 (33.1%)

Physiotherapy 203 respondents

Improved: 75 (36.9%) No impact: 85 (41.9%)

Disimproved/Made worse: 43 (21.2%)

Cognitive Behavioural Therapy (CBT)

115 respondents

Improved: 35 (30.4%) No impact: 49 (42.6%)

Disimproved/Made worse: 31 (27.0%)

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Tabel 4.10 Behandeling of begeleiding in verband met de diagnose ME/CVS en het ervaren effect van die behandeling of begeleiding

Behandeling of begeleiding % dat

Column 1: % dat behandeling heeft gehad

Column 2: aantal dat vraag naar effect heeft beantwoord

Column 3: Effect: Het ging daarna beter

Column 4: Geen effect

Column 5: Effect: Het ging daarna slechter

- dieet 65,2% n=251 50,2% 43,8% 6,0%
- homeopathie 64,6% n=247 30,8% 62,8% 6,5%
- fysiotherapie 52,4% n=203 36,9% 41,9% 21,2%
- vitamine B12 48,2% n=184 32,1% 63,0% 4,9%
- psychotherapie (niet CGT), psychologische begeleiding 46,1% n=169 33,1% 60,9% 5,9%
- begeleid zoeken naar een balans van activiteiten en rust 44,2% n=172 57,0% 33,7% 9,3%
- antidepressiva 43,0% n=165 32,7% 36,4% 30,9%
- carnitine 40,9% n=156 37,2% 53,8% 9,0%
- melatonine 38,0% n=146 32,9% 50,7% 16,4%
- begeleide opbouw van activiteiten 37,3% n=142 43,0% 23,9% 33,1%
- pijnstillers 37,0% n=138 47,1% 47,8% 5,1%
- cognitieve gedragstherapie (CGT) 29,9% n=115 30,4% 42,6% 27,0%
- oefentherapie 27,0% n=102 20,6% 42,2% 37,3%
- kruidentherapie 26,7% n=97 28,9% 61,9% 9,3%
- bedrust met begeleiding 11,7% n=45 48,9% 44,4% 6,7%
- opname in revalidatiecentrum 10,2% n=40 45,0% 35,0% 20,0%

- immunologische therapie 7,7% n=25 44,0% 40,0% 16,0%
- neurofeedback 3,8% n=14 35,7% 57,1% 7,1%

Survey 9: Norway (2009)

[Patients' experience with treatment of chronic fatigue syndrome.] <u>Tidsskr Nor Laegeforen.</u> 2009 Jun 11;129(12):1214-6 [Article in Norwegian]

- *Bjørkum T*
- *Wang CE*,
- *Waterloo K*.

torunn.bjoerkum@helse-forde.no Sogndal BUP Postboks 184 6851 Sogndal. http://www.ncbi.nlm.nih.gov/pubmed/19521443

BACKGROUND: Chronic fatigue syndrome is a highly debated condition. Little is known about causes and treatment. Patients" experience is important in this context.

MATERIAL AND METHODS: 828 persons with chronic fatigue syndrome (ICD-10 code: G93.3) were included in the study. They were recruited through two Norwegian patient organizations (ME-association and MENiN). The participants filled in a questionnaire on their experience with various approaches to alleviate their condition.

RESULTS: Pacing was evaluated as useful by 96% of the participants, rest by 97%, and 96% of the participants considered complete shielding and quietness to be useful. 57% of the participants who had received help to identify and challenge negative thought patterns regarded this useful. 79% of the participants with experience from graded training regarded this to worsen their health status.

Overall, the results were similar, irrelevant of the severity of the condition.

INTERPRETATION: Most participants in this study evaluated pacing, rest and complete shielding and quietness to be useful. The experience of the participants indicate that cognitive behaviour therapy can be useful for some patients, but that graded training may cause deterioration of the condition in many patients. The results must, however, be interpreted with care, as the participants are not a representative sample, and we do not know the specific content of the approaches.

Survey 10: (US) The CFIDS Association of America 1999 Reader Survey:

The largest survey of ME/CFS patients that I am aware of in the US was published by the the CFIDS Association of America in 1999 (questionnaires were also distributed that year).

I can send a copy of the page of results of 28 therapies on request. Unfortunately, I do not have time to type in all the results at present.

820 readers filled in the questionnaire.

The results for Graded Exercise Therapy were:

462 respondents

Helped a lot: 111 (24.0%) Helped a little: 170 (36.8%)

No effect: 51 (11.0%) Harmful: 130 (28.1%).

Numerically this was the highest rate of adverse reactions. Numerically the second highest rate of adverse reactions was reported for antidepressants:

Antidepressants 539 respondents

Helped a lot: 163 (30.2%) Helped a little: 154 (28.6%) No effect: 104 (19.3%) Harmful: 118 (21.9%).

In terms of percentages, Graded Exercise Therapy had the third highest rate of adverse reactions. Two treatments, Beta-blockers and colonics, which I think the CDC is unlikely to recommend, were marginally higher:

Beta-blockers

172 respondents

Helped a lot: 33 (19.1%) Helped a little: 39 (22.7%) No effect: 45 (26.2%) Harmful: 55 (32.0%).

Colonics

131 respondents

Helped a lot: 14 (10.7%) Helped a little: 38 (29.0%) No effect: 42 (32.1%) Harmful: 37 (28.2%).

CBT had a lower rate of adverse reactions compared to the rates seen in other surveys. This may be because CBT in the US currently is not simply based on GET – there are different

forms offered, some which might encourage the pacing of activities. However this might change if information from the form of CBT that tends to be used in the UK and the Netherlands is highlighted by the CDC.

CBT

160 respondents

Helped a lot: 48 (30.0%) Helped a little: 60 (37.5%) No effect: 38 (23.8%) Harmful: 16 (10.0%).

The treatment with the best results was Pacing of activities. It had the lowest rate of adverse reactions (1/601 or 0.2%) and the highest helpful percentage (i.e. the sum of the percentages for helped a little and helped a lot)

Pacing

601 respondents

Helped a lot: 423 (70.4%) Helped a little: 167 (27.8%)

No effect: 20 (3.3%) Harmful: 1 (0.2%).

As I have pointed out, Peter White has strong views on Graded Exercise Therapy (GET). He has also got strong views against Pacing and at the last moment resigned from the CMO group on CFS/ME (2002) (mentioned above) as it had placed Pacing on the same level as GET and CBT. People involved in the committee were annoyed at this as people had made a lot of concessions to try to get a document people like him would sign.

This is relevant when one is talking about an "international consensus on management." Basically by selecting Peter White for such a committee, it is very likely that the document will recommend GET with few caveats or warnings; alternatively Peter White will resign. His views would not be representative of a lot of the opinions in the UK or internationally, so it would not really be an international consensus if he was on the sole UK representative.

As I mentioned before, I believe you need people on any panel who are not in denial about the adverse reactions from GET (like Peter White appears to be). Here are my suggestions again: Charles Shepherd MD charles.c.shepherd@btinternet.com; Ellen Goudsmit PhD CPsychol AFBPsS (a Chartered Health Psychologist) ellengoudsmit@HOTMAIL.COM; Abhijit Chaudhuri DM MD PhD FACP FRCP (a consultant neurologist) chaudhuria@gmail.com; Neil Abbot MSc PhD (Operations Director, ME Research UK) Neil.Abbot@pkavs.org.uk and William Weir MD (an infectious disease consultant who ran an NHS clinic for ME for a number of years – I don't have an E-mail address at the time of writing but he can be contacted through his practice at: +44-207-467-8478 (i.e. from the US: 00-44-207-467-8478). Without individuals who are willing to challenge Peter White on such a panel, I believe one is likely to

get a document which hypes the benefits of GET and CBT based on GET and does not give much if any information on potential risks. To me, this would seem like a very irresponsible thing for an agency like the CDC to do.

The other point I want to re-iterate is my problems with the way the CDC CFS team have "operationalized" the Fukuda definition with the "empiric definition" (Reeves, 2005).

I have previously mentioned virtually all the points I would like to make on the topic as comments on papers that involved the definition. They are appended below in green (as they were included in my last submission).

Frustrated with both the lack of feedback and the CDC's continued use of the definition, I set up a petition on the issue (see Appendix 1). Despite the petition's text not being very "catchy", there are 1440 signatures.

I am appending the signatures below along with comments they made (more people me they made comments but for some reason some comments never showed up – given these are people signing a petition against the definition, these would not have been positive comments).

As I said in my (written) testimony to the May 2009 CFSAC meeting: "If one has a heterogeneous group of patients, it can mean that in intervention trials, if "true" CFS patients only make up a tiny fraction of the cohort, useful interventions could come up as showing no effect (or even being detrimental); alternatively, interventions may come up as being useful for CFS when in fact if one had only looked at those with "true" CFS, the intervention may have made no difference or may even have been detrimental." Given that the CDC is now moving towards intervention studies, this is a particularly important issue.

The CDC's response to this criticism might be that using subsets can deal with this issue. However the definition has been broadened so much by the empiric definition that it is far from clear that this is enough. The prevalence rates from CDC CFS studies went up from 0.235% to 2.54%. That means that on average, patients satisfying the Fukuda definition as the CDC was previously using it would only make up 9.25% of the patients covered by the "empiric definition". And of course due to the nature of probabilities, the actual figures could well be lower. And even if 9.25% were inducted into a study, on average in a trial which had at least two "arms", one of the arms would have a cohort with less than 9.25% of the individuals satisfying the Fukuda definition as the CDC was previously defining it. And of course, even at the earlier stage, it was recognized that even the Fukuda definition captured a heterogeneous population.

Of course, this point is true in general with the "empiric" definition – the definition has become so broad that it may now be impossible to find the subsets that make up CFS.

One other point: as far as I can see, the only virus group specifically referred to in the CDC's long 5-year Strategic Plan is HHV6.

It would be good if some of the CDC's (not inconsiderable) CFS research budget could be used to investigate enteroviruses in CFS. In 2007 a study involving enteroviruses[4] resulted in much excitement in the media on the subject. It found, in a sample of CFS patients who had gastrointestinal symptoms, that 135/165 (82%) biopsies stained positive for VP1 within parietal cells, whereas 7/34 (20%) of the controls stained positive (p=<0.001). Earlier studies have demonstrated circulating antigen of enterovirus, raised antibody titres and viral RNA in the blood and muscle biopsy specimens of patients with CFS[4-8]. John Chia does recognize that other infections could be playing a part in some CFS cases but enteroviruses are by far the most common infection he is finding in his clinic in California[9].

References

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- [4] Yousef GE, Mann GF, Smith DF, et al: Chronic enterovirus infection in patients with postviral fatigue syndrome. Lancet 1988;1:146-7.
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- [6] Galbraith DN, Nairn C, Clements GB: Phylogenetic analysis of short enteroviral sequences from patients with chronic fatigue syndrome. J Gen Virol 1995;76:1701-7.
- [7] Lane RJ, Soteriou BA, Zhang H, et al: Enterovirus related metabolic myopathy: a postviral fatigue syndrome. J Neurol Neurosurg Psychiatry 2003;74:1382-6.
- [8] Douche-Aourik F, Berlier W, Fe asson L, et al: Detection of enterovirus to human skeletal muscle from patients with chronic inflammatory muscle disease or fibromyalgia and healthy subjects. J Med Virol 2003;71:540-7.
- [9] Chia JK, Chia A: Diverse etiologies for the chronic fatigue syndrome. Clin Infect Dis 2003;36:671-2.

Other viruses and microbes are also worthy and studies that involve the gut may provide more information than studies that just use blood samples.

Thank you for taking the time to read this.

Tom Kindlon

Appendix 1: Petition

http://www.ipetitions.com/petition/empirical defn and CFS research/index.html

CDC CFS research should not involve the empirical definition (2005)

The petition

We call on the Centers for Disease Control and Prevention (CDC) to stop using the "empirical" definition[1] (also known as the Reeves 2005 definition) to define Chronic Fatigue Syndrome (CFS) patients in CFS research.

The CDC claim it is simply a way of operationalizing the Fukuda (1994) definition[2]. However the prevalence rates suggest otherwise: the "empirical" definition gives a prevalence rate of 2.54% of the adult population[3] compared to 0.235% (95% confidence interval, 0.142%-0.327%) and 0.422% (95% confidence interval, 0.29%-0.56%) when the Fukuda definition was used in previous population studies in the US[4,5].

The definition lacks specificity. For example, one research study[6] found that 38% of those with a diagnosis of a Major Depressive Disorder were misclassified as having CFS using the empirical/Reeves definition.

References

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- [2] Fukuda K, Straus SE, Hickie I, Sharpe MC, Dobbins JG, Komaroff A. The chronic fatigue syndrome; a comprehensive approach to its definition and study. Ann Int Med 1994, 121:953-959.
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Wichita, Kansas. Arch Int Med 2003, 163:1530-1536.

[5] Jason LA, Richman JA, Rademaker AW, Jordan KM, Plioplys AV, Taylor RR, McCready W, Huang CF, Plioplys S. A community-based study of chronic fatigue syndrome. Arch Intern Med. 1999 Oct 11;159(18):2129-37.

[6] Jason, LA, Najar N, Porter N, Reh C. Evaluating the Centers for Disease Control's empirical chronic fatigue syndrome case definition. Journal of Disability Policy Studies 2008, doi:10.1177/1044207308325995.

Further reading:

Problems with the New CDC CFS Prevalence Estimates Leonard Jason, Ph.D., DePaul University tinyurl.com/2qdgu4 i.e. http://www.iacfsme.org/Issuesw...

Brief comment from Tom Kindlon: I have Chronic Fatigue Syndrome (CFS) for over 20 years.

I want a lot of research progress in my lifetime and believe the empirical definition (2005) (also known as the Reeves definition (2005)) decreases the chances that this will occur: abnormalities that would show up using a more strictly defined definition won't show up using the empirical/Reeves definition; and abnormalities that might show up in the broad group covered by the empirical/Reeves definition are not necessarily representative of CFS patients.

Similarly treatments that might work on a more strictly defined group of patients might not show up using the very broad empirical/Reeves definition and treatments that might appear to work overall on the group defined using the empirical/Reeves definition might not be suitable for people who satisfy a stricter definition. This messes up the CFS literature even further.

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Technical note: I am not sure why some people have grey boxes in the comments section. Some people have told me they have sent comments that never went up. I have not idea why this is happening.

Petition sponsor

Tom Kindlon, a patient with Chronic Fatigue Syndrome (CFS) for over 20 years. I have done a lot of voluntary work in the area for over a decade. Recently I had two letters on CFS published in medical journals.

Links

The paper defining the empirical/Reeves definition can be read at: http://www.biomedcentral.com/1741-7015/3/19

Some comments on the paper have been posted at: http://www.biomedcentral.com/1741-7015/3/19/comments

An article by Leonard Jason PhD on the issue can be read at: tinyurl.com/2qdgu4 i.e.

 $\underline{\text{http://www.iacfsme.org/IssueswithCDCEmpiricalCaseDefinitionandPrev/tabid/105/Default.asp} \underline{x}$

http://me-cfs.se/dok/081205-cfs-no-longer-cfs.pdf

By Kasper Ezelius M.Sc. This includes some links to other definitions, Kasper's take on the issues and a list of some papers that have involved using the empirical definition (this list is not up-to-date; virtually all the papers from the CDC 2-day Wichita study and also from the Georgia cohort have used the empirical definition to define CFS)

http://www.ipetitions.com/petition/empirical_defn_and_CFS_research/signatures-1.html

| # | Name | Comments |
|----|-----------------------|---|
| 1 | jill cooper | |
| 2 | Keith Riley | Definitions are now so broad as to include almost anyone feeling a bit off colour. WE |
| 3 | Peter Ruberry | should get back to the Melvin Ramsay definition of ME |
| 4 | Anonymous | |
| 5 | Ellen
Goudsmit | |
| 6 | Jenny Wilson | |
| 7 | Irene Thorpe | 20 years of being messed around. I would like some answers and treatment now . The faster the better thank you |
| 8 | Laurence
Swift | The most precise definition of ME is the "Canadian Definition", which precludes many non-ME diagnoses. The present broad definition incoporates too many general cases of non-ME states to make any research valid. These non-ME cases should be called "CFS" and true ME listed separately. |
| 9 | Michele E
Townsend | This is very important to those of us that carry this diagnosis. |
| 10 | Veronica
Jones | It is time to get rid of the woolly definition that includes too broad a group of patients thus muddying research results |
| 11 | Anonymous | The 2005 definition flies in the face of calls for subgrouping CFS patients to account |
| 12 | Linda Wish | for possibly different etiologies and pathologies. Instead, the original CFS/ME has been dissipated in a wide far-ranging heterogeneous group with vague symptoms ignoring the specific post-exertional problems patients have and the neurological problems that need research and treatment |
| 13 | Anonymous | |
| 14 | Dr John
Greensmith | |
| 15 | Rosie Cox | I have had this illness since 1970. I too want movement in research into this illness which will not happen until reserach uses cohorts based on appropriate definitons of which the CDC Reeves 2005 is not one. I would prefer the use of the Canadian Consensus Document, or more pertinently the Ramsay selection criteria which have much greater specificity for ICD10 ME. |
| 16 | Annette
Barclay | |
| 17 | Perry
Townsend | |

Gail R. Kansky 19 Elizabeth **McPhillips** 20 Penny Green 21 C Johnston 22 Marcus Doolette 23 Anonymous 24 Sarah Owens Very good intitiative! My documents on the subject: Use the Canadian criteria 2003 for CFS in the USA. http://me-cfs.se/dok/080622-Use-Canada-criteria-in-USA.pdf Resolution in order to make cohorts less heterogeneous. http://me-cfs.se/dok/080901-25 Kasper Ezelius mod-cfs.pdf How to categorize ME and CFS. http://me-cfs.se/dok/081023categorize.pdf CFS is no longer CFS, and it was never ME. http://mecfs.se/dok/081205-cfs-no-longer-cfs.pdf 26 27 Rob Arnoldus 28 Alfhild Renbro 29 Rita Eckerman 30 Trond Aure Go Tom Kindlon! many of us have fought the 1988 holmes lousy definition, the worse Fukuda 1994 "definition" and the overly broad reeves "chronic illness melange" 31 Anonymous as Kasper called it. us oldtimers are burned out, we need new blood to fight this terrible fight! TMH TMH 32 Hillary L. Culver 33 Anonymous **34** Anonymous 35 Anita Patton 36 Ciaran Farrell 37 Karen M. On behalf of 225 members of CFS Facts support group Campbell 38 Catherine C Larson 39 Anonymous Even though research on our disease is miserably underfunded, gene expression and 40 Elsie A. other specific scientific research shows that CFS probably contains subcategories and Owings needs to be studied in more, rather than less, specificity. Throwing the disease into a waste bin full of other fatiguing illnesses does nothing to further our research. 41 Karen Algerio 42 Liz Willow 43 christine Gow 44 Sarah LaBelle The research following publication of the empiric defintion shows a need for this change. Thanks Tom! Much needed petition. **45** Anonymous The Wisconsin ME/CFS Association board has discussed CDC research, and **46** patricia Fero

examined specific studies including subsequent publications using Wichita and Atlanta methodology to identify CFS patients. We conclude that the study of fatiguing illnesses in people across cultures is an important epidemiological endeavor. However, to call this CFS research and to fund it under that mechanism is wrong. We believe that ultimately the pathophysiology of a specific disease entity will be revealed by investigators interested in specificity. Inclusion of challenging contributions from international Myalgic Encephalomyelitis and CFS researchers is paramount in this process.

paramount in this process. Joan 47 Grobstein, M.D. 48 Frank Twisk 49 P. Simpson Lolly McDermott Name # **Comments** 51 Lillie Smith **52** Wallace Provost Benjamin Di Pasquale Constance Van 54 der Eb. Ph.D. CDC is trying to hold up progress on the real disease by widening the criteria to 55 Steven DuPre include many who do not have the disease. Mary 56 Schweitzer, Ph.D. 57 K McCall Gerald R. Campbell, Ph.D. **59** Peter Cummins **60** Alice Browne The Canadian definition would be a much more suitable definition, in my opinion **61** Tammie Page and that of many, many others, as well. As far as I am concerned, use of the Reeves "definition" has resulted in the CDC studying "chronic fatigue" of any etiology rather than doing hard investigation into the unique array of symptoms dubbed -- erroneously, in my opinion --62 Kathy D. Patti "Chronic Fatigue Syndrome." All your past research is useless because of its wide-open definition. If you want to contribute to medical science, use the Fukada definition. I strongly believe that the empirical definition 2005 has hindered the progress in research and treatment of this globally important disease. If the CDC is truly 63 Casey Pfluger committed to being a world-leader in CFS research then their CFS definition

64 Joanne Shiller

65 Tony Foran

66 Tanya Selth

67 Thea Funk

I live in the Netherlands and have ME/CFS for nearly 20 years. As the USA, by my knowledge, always had a leading role concerning research, I really am stunned

needs to be updated to encompass new developments and discoveries since 2005.

I do not endorse the use of the Reeves (2005)empirical definition on CFS.

about the recent developments in ME/CFS research in your country. **68** Anonymous We need reliable consistent research. McLaughlin The sooner that all those severly affected by this terrible get help, the better. It 70 Simon Lawrence must NOT be confused with feeling tired, which affects everyone from time to time. 71 connie nelson **72** Jacqui Footman **73** Anonymous Giakoumakis **76** Alfhild Renbro 77 Hayley Klinger 78 Fiona Hodgkiss CFS implies a vague diagnosis or a mild diagnosis of little consequence. 79 Carol O. Olsen **80** Anonymous **81** Anonymous **82** C. Krusen Heller **83** Nicole Roesner **84** Louise Sheldo Millions of dollars in federal and other funding is being wasted generating totallly meaningless data the "results" of which delay not advance science in this essentail area of research. Julie G. Donalek, R.N., Ph.D., DePaul University Department of Nursing 87 sarah kepert 89 Ian McLachlan 90 Kathy Davis i fully agree with the intentions of this petition. the empirical definition of cfs/me 92 jeremy bearman is a step in the wrong direction and is not in the best interests of patients I am from French Canada (Québec). Thank you for all the work you are doing. Because in here, it is rather hopeless (no research, a very weak association). I am Mona-Josée the mother of a 32-years old woman with ME, and those quarrels about definitions are terribly harmful and "hope destructive". We need to develop acuity not undermine it. 95 Anonymous 96 Deborah Waroff

An investigation of chronic fatigue, while expensive, is essential to look for any

Alexa

Jane

75 harry burg

K.B.M.

Dr. Julie

Donalek

88 Rik Carlson

Unn-Elin

Gagnon

94 Ewan Dale

97 Anonymous 98 Anonymous 99 Anonymous

> Lawrence Plumlee, M.D.

101 Anonymous

treatable causes.

Andreassen

Schellekens

85

86

91

74

102 Dianne Bowman **103** Cort Johnson

104 Anonymous

Fatigue is a symptom of ALL diseases and should not be used as a definition of ONE illness. The medical establishment has dismissed many ill people and thus many have gone without appropriate diagnosis and treatment; treatment that could have helped in the early stages.

I gladly support your petition! The Netherlands

105 Andy Grum

106 Evelien van den Brink

107 Willeke van der Vlist

108 C.Walker

109 Angela Kennedy

110 Suzy Chapman 111 Catherine Broughton

112 F. Wong

Specificity is critically needed in the definition of ME/CFS. Using a nonspecific definition of the illness further muddies the ME/CFS waters.

113 lorraine Murray **114** genevieve gagnon

115 Diana Saba

116 Sandy Cooley

117 Kathleen Flaherty, J.D.

118 Annabel Luery

119 Dave Murry

120 Craig Maupin

121 Susan Wenger

122 Tim Gardner

123 Kerrie McCure

124 John Mitchell jr

125 Edelgard Gerstmann

126 Jess MacDonals

127 Anonymous

128 Peter Kemp

129 Carol Wong

130 Karen Riem

131 Ashley Hinds

Please do not water down the thinking and the research about this devastating illness. There is little enough funding and support: lumping various illnesses and symptoms together and broadening the definition beyond useful meaning hinders research, insults those of us who are sick, and ensures that even if we learn something, we may not be able to know

or effectively use what we know.

The empirical definition is a step backwards, defining subgroups as per the genetic studies is the smartest way forward so that you are comparing apples with apples rather than with oranges, pears & carrots as this

appallingly vague definition allows.

132 A Walsh

133 Anonymous

It disgusts me that in one of the most advanced nations in the world, CFS is merely a battle of personal agendas by those in government agencies who should instead be attempting to heal their citizens. Forget the politics and personal ambition and find a cure. I have had CFS for over 20 yrs, most of my adult life, and would like to have a good quality of life for the remaining years i have. That can only happen if a cure or at least effective

Use the Canadian Criteria!!

treatment for CFS is found. That will never happen if the major centers for research in the US continue to ignore the real facts about CFS, instead pushing their own biased pet theories. The continued use of the seriously flawed Reeves definition is just more of the same.

National Alliance for

134 Myalgic

Encephalomyelitis

For all unable to speak for themselves

135 Peggy Lundquist

Please include "post exertional malaise" in the definition. I have been ill since 1987 and this symptom has never left me. I am not suffering from depression, I am suffering from irritation from the lack of acceptance of a serious health condition. I now have cancer as well and still cannot find a primary care physician to care for me as I have been diagnosed with a disease few understand or take seriously. Please, focus we need better.

136 Alan Gurwitt

137 Loretta Duzan

I have had CFS for 40 Years and was diagnosed as mental case for 20 of those years. I think it is high time this disease was taken seriously. It has brought down so many people. I could only work and sleep. No personal life at all. That is no way to live.

138 Jenny Griffin 139 mia lauren

140 pauline ovenden

Having had ME for over 50 years I completely concur with the statement made by Tom Kindlon

141 Anonymous 142 Anne-Marie

Woynillowicz Kemp

The Canadian Clinical Case Guidelines, which are really international, should be used around the world. CDC should adopt them.

143 Carole Sturgis

Thank you for this petition - it is crucial to get research and understanding for people with CFS.

144 jacqueline christensen

145 Anonymous

146 Laura Ingraham

147 Jan Andersson

148 Laura Dunks

I have ME/CFS and I believe that it is important to correctly define the illness to provide appropriate research. We needs answers!!!!!

149 Hillary L. Culver

150 Anonymous

151 Daniela Martins

152 Anonymous

153 Maureen Goggins

I have just crossed the 21 year mark as a Chronic Fatigue Syndrome patient. We **154** Barbara Berger all agree that research is essential, but how that research is done or interpreted is key to any progress.

155 Stephen Philip Cox

156 Fiorella Mucci

157 Guido den Broeder

Better still: drop CFS altogether. Myalgic Encephalomyelitis is a genuine disease, CFS is an artifact that serves only to stigmatize and confuse.

158 Shelley Lauer

159 Maartje Dijkstra

160 Charlotte von

Salis 161 Sarah Goodwin 162 Bernie Standish 163 JOAN **MCPARLAND** 164 Anonymous Dr. Reeves is using this disease for his own political gain-he is profiting personally and financially by reclassifying CFS as a psychological illness. There 165 Anonymous is overwhelming evidence that viruses are involved and the CFS definition should reflect the actual symptoms of the disease. 166 Rebecca Cordingley 167 Christina Omorochoe 168 Susanna Agardy 169 Lyle Allan 170 Anonymous my girlfriend has me 171 cor soeterbroek 172 A.C.van der Wel **173** gea 174 Dr. Katharine M. Kanak 175 Anonymous 176 Diane Lewis 177 Jerrold Spinhirne 178 J McCall 179 Ray Colliton 180 **181** Anonymous none 182 Truthseeker **183** Anonymous Margaret Williams I just want the truth, and compassion for children and adults who have ME. I will 185 joy birdsey never use the initials CFS. 186 Anonymous **187** Alison Wallace 188 Marie L. Martineau 189 Anna Wood 190 Leonard Wagner **191** Marcia Brewer 192 Anonymous 193 Cathleen Connor 194 Roger Morgan 195 Anonymous ME-patient (Belgium)

196 antoinette Christie197 Laurence Swift198 Paula Gilfedder

199 Maggie Wallace 200 Thomas Ragan 201 Denise Visscher CFS patient 202 Jan van Roijen 203 Lea Schorr **204** Jeanette Marley **205** Bernice A. Melsky 206 michael allen, ph.d. I was disabled in 1987 with chronic EBV; changed to CFS in 1988. The disease **207** Anonymous evolved into T-Cell Lymphoma in 2001 **208** Christine Gow **209** Raymond Milsted Lets have some proper medical research 210 William Caroli I have had CFS since 1997, and it is way past time for the CDC to be using the 211 Paula Kenley Freeman obsolete empirical definition. Updating the definition would offer researchers a less vague umbrella under which to work. 212 Jules De Cuyper 213 Shan Russell 214 John Herd 215 Anonymous 216 Orla Ni Chomhrai 217 Anonymous Myalgic Encephalomyelitis is the official name for the disease - in use for over 50 years now - and the Canadian definition is superior to any of the CFS **218** Anonymous definitions. 219 Anonymous Margaret Holt I am concerned about definitions that ignore significant additional research, and potentially stigmatize persons with this and related disabilities wrongfully. Baird, Esq. I am strogly opposed to the Reeves definition **221** katherine Bishop **222** Paul Thompson 223 Diane Grum Patricia The World knows what CFS (ME) is - the CDC needs to retire from the fray. Blankenship 225 Anonymous 226 P.L. Bourdon Before my illness I was enjoying my life. First, as an advanced nurse practitioner and as a professor at a university teaching nursing. I then went back to law school and obtained a J.D. I practiced law before contracting this illness. That was 12 years ago. I believe what Mr. Kindlon has stated above. I also 227 Sandra Cole believe that Mr. Reeves should not be in charge of this program as he does not support logical definitions or programs concerning this population. Please get someone who cares about us to run this program. This has gotten way out of hand. 228 Catherine Foxwell my wife suffers from cvs me already for years and had to retire early for this by 229 Guido Flobert decision of a board of medicins 230 S. Young

231 Vicky Vandendriessche

| 232 P Angiollilo233 nancy Rauhofe234 Robin Syms | r It is time this illness is called what it really is. CFS |
|---|--|
| 235 Yvonne Leach | I am very concerned that a mishmash of diseases have been incorporated under
the umbrella of CFS. It would be premature to decide on measures to reduce
CFS if there is no definitive cause. Trying to find psycological markers would |
| | be as wasteful of time and money as trying to find psycological markers for diabetes type 1, for example. |
| 236 H.Patten | |
| 237 D. de Boer 238 RACHEL | |
| Anneco Blanso | better have strict criteria for ME research - would really be more helpfull for |
| Henkemans | research results and ME patients. |
| 240 Anonymous | • |
| 241 Anonymous | |
| 242 sue hogben | |
| 243 Anonymous244 Wil Sengers | |
| 245 Anonymous | |
| 246 Sarah Robinson | 1 |
| 247 Ingeborg | |
| 248 gaston gingues249 Anonymous | CFIDS sufferer for 6 years and counting! |
| 250 Carole Howard | |
| 251 Rik Carlson | |
| 252 Anonymous | |
| 253 Jami M | |
| Griscom 254 Anonymous | |
| 255 Daniel Prince | |
| 256 Anonymous | |
| | tCan the Reeves definition. |
| 258 Anonymous | |
| 259 jean Harrison260 Anonymous | |
| 261 Liz Wenn | |
| 262 Alpha Mason | |
| 263 R Manning | |
| 264 Anonymous | |
| 265 kathleen Flaherty, J.D. | |
| 266 Marie Jerales | |
| 267 Anonymous | |
| 268 Siobhan Copson | |
| 269 Anonymous | as a sufferer of m.e. for 25 yrs i need to see that this illness is taken seriously and classified properly and also proper bio-medical research carried out |
| 270 Anonymous271 Anne James | |

272 Rosemary Humby Incorrect selection of patients who are to be the subject of research studies renders the results of the research worthless. Every opportunity must be taken to ensure that this does not happen. The US could be leading the world in CFS research, yet it appears that it is in danger of simply following the models of bad practice which are perpuated elsewhere.

273 Anonymous274 Susan Marshall

The empirical definition identifies such a broad range of patients that it can include people who are physically able to run a marathon. Such absurdities allow the figures of prevalence of ME/CFS to be raised from 0.4% of the population to over 2.5% in a recent study. As such the empirical definition is worthless for serious scientific studies.

276 Sarah Labovitch277 Annabel Luery

275 Invest in ME

278 Alison Orr

279 Anonymous

I have had Me for 7 years. It has taken away what should have been the peak years of my life - I cannot get those years back but would like to make the most of whatever years I may have left - to do this I need appropriate medical treatment - spurious arguments geared towards the selection of illness criteria which suit a particular cadre of researchers as opposed to the needs of people with this devastating illness are helping no one. Please think of the lives of people with this illness and end this now.

280 John Wallace281 Alison Wallace282 Pat Sonnett283 Anonymous

The empirical case definition (Reeves et al 2005) lacks specificity and allows the inclusion of subjects as having CFS who actually have major depression and other non CFS disorders as a primary diagnosis. This has been published by Jason et al and is clear to anyone who is familiar with the questionnaires being used and the criteria of the common psychiatric disorders. The CDC has the opportunity to set a high standard for CFS research by admitting that the Empirical Criteria were misguided and should not be used. It would be better to continue to use the Fukuda Criteria while calling together a truly representative group of experts to develop research criteria based on both epidemiological and biomedical research. I am a PWC since 1992. I have clearly defined physical abnormalities (immune dysfunction, brainwave abnormalities, seizure problems) in addition to more common symptoms. The Reeves empirical definition broadens the definition of CFS to such an extent as to make accurate diagnosis impossible. It also makes research done using the Reeves definition meaningless. Treatments effective for people with MDD are uselessand possibly harmful for me. When will CFS patients

284 Eleanor Stein MD FRCP(C)

285 Anita Swann

286 Michelle
Perkins
287 Carolyn Allison

Anything that could help to cure or relieve the living death that ME sufferers have to endure is worth pursuing; anything that threatens to jeopardise such moves deserves total annihilation.

receive a competent, meaningful research program from the CDC?

Rachel Millward Caroline

Roberts

291 Catherine

Please research the connection of ME with Wi-fi, mobile/digital phones, radio masts etc. incl. all electromagnetic effects in this so called modern/progressive world, the appalling continued use, by NHS, of mercury in amalgam fillings & the resultant detremental health effects this practice has.

The reeves definition includes patients who have Fatigue for emotional reasons. this serves to confuse the research data. giving false results for trials of treatments. me/cfs is a devastatingly disabling neurological illness that needs bio medical research, this definition hinders this taking away funding from the true me/cfs patients, there is brilliant research being done in the usa by for eg whittlemore peterson inst, dr chia, dr learner.

292 julia warman

293 Anonymous

294 Karen McMillan

Adopting the empirical definition is a waste of precious time and money as well as compounding the suffering of those with CFS/ME who continue to be failed by the NHS.

That we may help to save others from the crippling effects of misinformation

295 Anonymous

296 Anonymous

297 Christine Stronach

298 Pamela Mawanda

I have cfs

299 J. Morton

300 Catherine Evans

| | | Get rid of Reeves and replace him with someone with a brain in their head. The CDC has |
|-----|--------------------|---|
| 301 | Sharon Stapleton | done nothing for CFIDS research. Actually, CDC has thrown us backwards and kept us in |
| | | the Dark Ages. We need NEW CFS leaders at the CDC - NOW. |
| 302 | Marsha Moore | After collapsing in 1989, I have lived a very limited life for 20 years, as I continue to be |
| | | seriously disabled with cfids. |
| 303 | Mike Hughes | |
| 304 | Lisa Connor | |
| 305 | Anonymous | |
| 306 | Beth Beardmore | |
| 307 | Dave Holt | |
| 308 | Kathy Clifford | |
| 309 | Rose Anne Clifford | |
| 310 | Kathleen Clifford | |
| 311 | Margaret McFadden | |
| 312 | Kathy McFadden | |
| 313 | Gemma Ford | |
| 314 | Katherine Clifford | |
| 315 | Anonymous | |
| 316 | Anonymous | The new "emipicial definition" of CFS/ME which is very flawed. In short, the criteria are so non specific that up to 40% of people with major depression and NO disabling fatigue would qualify as having CFS. It was after these criteria came out in 2005 that the CDC announced that the prevalence of CFS was 3X higher than previously reported. The prevalence of CFS did not jump, rather more people with other types of problems were now included under the CFS label. Leonard Jason presented his research on this issue at the November conference. The ramifications of the world researchers using these criteria are serious as it means we will continue to have inaccurate studies with misleading findings. |
| 317 | Leanne Morgan | |

| 318 | Carol McTa | vish | | |
|----------|-----------------|-------|--|--|
| 319 | Anonymou | | | |
| 320 | Francelia E. F | | | |
| 321 | Steven Kus | | The criteria should include (and eve | n quantify) the disabling fatigue that is associated with CFS. |
| 322 | Lilliana Se | iic | | |
| 323 | Goran Prvul | | | |
| 324 | Mark Prvulo | | | years, I wish that this illness receives the attention g it so desperately needs. |
| 325 | Marina Se | jic | | |
| 326 | Darlene Bl | air | and the use of chemicals to eliminate Maybe if the CDC and the FDA were responsibility to find the causes of | one is surely connected to our chemical environment
e germs and decrease our natural immune system.
public entities then they would take more time and
of these diseases and therefore eliminate them
tion of changing the definition to more specific one. |
| 327 | Evelyn Vio | lini | anogonion i onorigiy dappoir uno dot | iter or orranging the definition to more openine one. |
| 328 | Matilda Mor | | | |
| 329 | Mary & Kathlee | | | |
| 330 | Judy Goodz | | | |
| 331 | Naomi Hoo | | | |
| 332 | William G Ha | | M.E. is a real disease, with real sig | ns and symptoms. STOP misdiagnosing it as the phony CFS! |
| 333 | Aisling | | | • |
| 334 | Lori Hoffm | an | | |
| 335 | trish murp | hy | | |
| 336 | Anonymou | JS | | |
| 337 | Robin. A .Br | ook | | |
| 338 | | | | |
| 339 | Anonymou | JS | | |
| 340 | Clair | | | |
| 341 | Anonymou | JS | | |
| 342 | Charlotte Hov | warth | | |
| 343 | Anonymou | JS | Please lis | ten to CFS/ME patients |
| 344 | Warren Mag | rum | | · |
| 345 | Anonymoi | JS | | |
| 346 | | | They are 22 and 24 years old and he They have had their lives ripped and definition muddles the research water of them having any sort of meaningfus imilar situations who do not have so possibility that for every person who he | t children who are both disabled with the disease. have been disabled for 4 and 6 years respectively. way at a young age. Using the empirical/Reeves is and delays progress towards a cure and a chancul life. There are many other people are out there in tomeone to speak for them, so please consider the has signed this petition, there are many many more uld have if they could. |
| 347 | Kristine Schaus | | | |
| 348 | | | | |
| 349 | - , | | | |
| 350 | Erin Doni | | | |
| | 351 | | sandra short | |
| | 352 | | Angela Porter | |
| <u> </u> | 352 | | Angela Forter | |

| 351 | sandra short | |
|-----|---------------------|--|
| 352 | Angela Porter | |
| 353 | marilyn bailey | |
| 354 | Carol Ann MacArthur | |
| 355 | Kathryn Edwards | |
| 356 | Monique Chantal | |
| 357 | Anonymous | |
| 358 | Chris McDowell | |
| 359 | Anne Edgington | |
| 360 | Angela | |
| 361 | Anonymous | I am grateful to the advocates who are willing to hold the CDC to task on this critical point. If we start with a poorly constructed definition, how can we have meaningful research and finally start |

| | | making progress toward truly understanding |
|-----|----------------------|---|
| 000 | | and treating *and curing!* this disease? |
| 362 | Cheri Dennahower | A stricter definition will increase the |
| 363 | Teresa Craig-Morgan | chances of an actual treatment being discovered. |
| 364 | Angela Teliske | |
| 365 | bethany miller | |
| 366 | Pauline Orr | Without a definitive title how can there be definitive research? |
| 367 | Lindsay Kitson | |
| 368 | Alexandria Sherman | |
| 369 | Dave Holt | |
| 370 | Nikki Rush | |
| 371 | Faith Harper | |
| 372 | Nicola Creighton | |
| 373 | katie | |
| 374 | Kelly Keegan | Please hear our voices. We speak from experience and much suffering. |
| 375 | Suzen | |
| 376 | Michelle Martin | |
| 377 | Nicola Baker | |
| 378 | Bryan Wilde | Surely our voices cannot continue to be ignored, when our varied tongues all call for the one definition. |
| 379 | julian copson | |
| 380 | Briony Newbold | |
| 381 | Summer | |
| 382 | Amanda Turvey | |
| 383 | Greg White | |
| 384 | Valerie von Isenburg | |
| 385 | Anonymous | |
| 386 | Jan Donald | |
| 387 | bemi | i suffer from m.e and fibromyalgia for over 13 years |
| 388 | Eve Friday | |
| 389 | Donna Pruitt | |
| 390 | Samantha Cooper | |
| 391 | Sheila Copson | |
| 392 | Michael Copson | |
| 393 | Sarunyu Prutisart | |
| 394 | Anonymous | We call on the CDC to stop using the
"empirical" definition to define Chronic
Fatigue Syndrome patients in CFS
research. Sallie van Merkensteijn |
| 395 | Ricky Buchanan | |
| 396 | Anonymous | |
| 397 | Deanna Mew | |
| 398 | Bob Geary | |
| 399 | sue hogben | |
| 400 | Pam Wilson | |
| | | could have been the most productive years |

sick w CFS/ME for 20 yrs. They could have been the most productive years of my life. What a waste. You have wasted so much time, and so has the CDC.

| 402 | Anonymous | after 22 years of ME, yes you heard me, and the CDC playing with our lives for 25 years, ENOUGH is ENOUGH. 28 million people IS not a joke and with cardiomyopathy no wonder the HEART is the #1 killer Give us a Break PLEASE Enter the 21st Century. |
|-----|--------------------------------|--|
| 403 | Valerie Kiesel | |
| 404 | Jeanne | |
| 405 | Elizabeth Batty | |
| 406 | Kyle (Cokedude1324 of
AYME) | After 1 and half years of M.E. i think i need to help others and to me this is important we need the world to know about M.E. |
| 407 | simon edwards | |
| 408 | Maryellen Smiley | |
| 409 | Lucy McFarlane | |
| 410 | Anna Tetlow | |
| 411 | Anonymous | |
| 412 | Rosalind Amor | The better research U do into ME, the better the results! |
| 413 | Alex Potter | |
| 414 | Anonymous | |
| 415 | MaryBeth | |
| 416 | Richard S. Christian | |
| 417 | Eirik Randsborg | |
| 418 | Anonymous | |
| 419 | Hege Renate Lochting | |
| 420 | Trude | |
| 421 | Alfhild Renbro | It's unbelivebel and astounding to me! |
| 422 | Diana Lukevich | It would be unfair to receive a false positive diagnosis of chronic fatigue if depression were the real issue. Research spells hope for us with CFS and having real, relevant research may mean the difference between increased health in our lifetime or not. This depends on having actual CFS clients in studies and not depression subjects, which will skew the results. |
| 423 | Birgitte Rønning | |
| 424 | Maya VanDousen | |
| 425 | Joy Janzen | |
| 426 | Sue Oliver | |
| 427 | Anonymous | |
| 428 | Beverly Kleefeld | |
| 429 | Ola Vold | |
| 430 | Anonymous | |
| 431 | Gudny Sonnesyn | |
| 432 | Susan Magowitz | |
| 433 | J. Myers | |
| 434 | tertitta | |
| 435 | Lisa | |
| 436 | Anonymous | |
| 437 | john cobb | Good luck to your plan being submitted in May. |
| 438 | Laila G. Thongsai | |
| 439 | Gerd Marit Berge | |
| 440 | lisa brett | |
| 441 | Katie Roberts | |
| 442 | Jim Dourgarian | |
| 443 | Anonymous | |
| 444 | Smithe Celestin | |

| 445 | Joan E. Nielsen | differentsy ar
help real M
sicness wor | ritisese the use of the defination of CFS - there is a hugde and the problem is the treatment psykiatric and medicine dont E and CFS sick people, it can do harm and instead do the ser You need to use the canadian critires to make the real to of this disease. Kind regards Joan Elisabeth Nielsen |
|-----|------------------------|--|---|
| 446 | Anne Örtegren | , | |
| 447 | Anna Fenander | | |
| 448 | Thomas Lundh | | |
| 449 | ragnhild rindeskog | | |
| 450 | Mona Martensson | | |
| 451 | Anonymous | | |
| 452 | Kathleen Dun | ne | |
| 453 | Alfhild Renbr | 0 | |
| 454 | Karin Blomqv | ist | |
| 455 | Anonymous | ; | |
| 456 | Pernilla Bran | dt | |
| 457 | Anonymous | ; | |
| 458 | Katelin Hoffm | an | |
| 459 | Katja Landén, Sv | veden | |
| 460 | Josefin Dahlbe | erg | |
| 461 | Carina Eklun | d | |
| 462 | Anja Klarin | | |
| 463 | Anonymous | i | |
| 464 | Anonymous | . | |
| 465 | Maria Thiland | er | |
| 466 | annika petzäll | | |
| 467 | Charlotte Kolm, Sweden | | |
| 468 | Anonymous | | |
| 469 | Anonymous | | Olemania de la lacción de la compania del compania de la compania del compania de la compania del compania de la compania del compania de la compania del |
| 470 | Christina Jonk | | Stop using the "empirical" definition[1] (also known as the Reeves 2005 definition) to define Chronic Fatigue Syndrome (CFS) patients in CFS research. |
| 471 | Gertie Gladnik | off | |
| 472 | Carina Sande | ell | |
| 473 | Rebecca Fo | x | |
| 474 | Anonymous | | |
| 475 | inga-lill gustafs | | |
| 476 | Christina Mal | - | |
| 477 | Anonymous | | |
| 478 | Anonymous | | |
| 479 | Anonymous | | |
| 480 | Anneli Bengtss | | |
| 481 | Johnny B. Pede | | |
| 482 | Helena Pektas | | It is a BIO DIO DI OODY CULTUS |
| 483 | Monique Luttikl | | It is a BIG BIG BLOODY SHAME! |
| 484 | Anonymous | | |
| 485 | Anonymous | | |
| 486 | Anonymous | | Chronic Fatigue Syndrome should be defined narrowly rather than in a |
| 487 | Reid & Donna Jo | hnson | wider group of other maladies so that specific research can be done in order to help those who suffer. |

| 488 | Anonymous | |
|-----|-------------------------|---|
| 489 | Anonymous | |
| 490 | Anna Cotton | |
| 491 | Eva Karlsson | |
| 492 | Jan Olausson | |
| 493 | Rainer Öhman | |
| 494 | Anonymous | |
| 495 | Anonymous | |
| 496 | Hakan Lindblom | |
| 497 | Märta Hansson | |
| 498 | Heidi Jansson | |
| 499 | Aake Bjoerk | |
| 500 | Boel OLfsson | |
| 501 | Anonymous | |
| 502 | Anonymous | |
| 503 | Anonymous | |
| 504 | Anonymous | |
| 505 | SVEN HÖGBERG | |
| 506 | Anonymous | |
| 507 | Hanna Höglund | |
| 508 | Sofie Falkman | |
| 509 | Christina Nilsson Scheu | Z |
| 510 | Anonymous | |
| 511 | johan bengtson | |
| 512 | Anonymous | |
| 513 | Tone Myhrer | |
| 514 | Jonte Kullersten | |
| 515 | Alfhild Renbro | |
| 516 | Saga Börrefors | |
| 517 | Peter Ahlberg | |
| 518 | Johanna Eriksson | |
| 519 | dorotea pettersson | |
| 520 | Gertie Gladnikoff | |
| 521 | Anonymous | |
| 522 | Anonymous | |
| 523 | Margreth Mardby | |
| 524 | marie burlin | |
| 525 | Kristina Mårdby | |
| 526 | Anonymous | |
| 527 | Anonymous | |
| 528 | Rebecka | |
| 529 | Anonymous | |
| 530 | Anonymous | |
| 531 | Anonymous | |
| 532 | Anonymous | |
| 533 | anna håkansson | |
| 534 | Natalie | |
| 535 | Vivi Forslöw | |

| 536 | Heléne Åkerling | |
|-----|----------------------------|---|
| 537 | Carina Seidegård Bengtsson | |
| 538 | Anonymous | |
| 539 | Ann-Kristin | |
| 540 | Agneta Perzon | |
| 541 | EvaLinneaTorstensson | |
| 542 | Anonymous | |
| 543 | Anonymous | |
| 544 | Sujatin | I have had ME since the beginning of 1990s and little or no treatment |
| 545 | Harry Mårdby | |
| 546 | Gunilla Valström | |
| 547 | Anonymous | |
| 548 | Anonymous | |
| 549 | Tomas Strand | Please help us with problem. |
| 550 | Anonymous | |

| 551 | Anders Fredriksson | |
|-----|-----------------------------|---|
| 552 | Katrin Hoglund | |
| 553 | Betty Chyssler Trägårdh | |
| 554 | Annika Danielsson | |
| 555 | Anonymous | |
| 556 | Rutger Gustafsson | |
| 557 | Marjo Hänninen | |
| 558 | Ilona Walker | |
| 559 | Anonymous | |
| 560 | Anonymous | We with "CFS" suffer already enough |
| 561 | Helena Widenby | We with GF3 suiter already enough |
| 562 | | |
| 563 | Mikael Olergård Acke Scholl | |
| 564 | Christoffer Justusson | |
| 565 | | Otales a life is hand an analysis also add |
| | Johanna Brohm | Cfs/me-life is hard enough already! |
| 566 | Anonymous | That is not a good ide! |
| 567 | Anna Söderström | |
| 568 | Anonymous | 1 1-11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 569 | Anonymous | please! This is important for so many people! |
| 570 | Anonymous | |
| 571 | Anonymous | |
| 572 | Annica Hallman | |
| 573 | Anders Collinder | |
| 574 | Anonymous | |
| 575 | Marianne Hilding | |
| 576 | Christopher Hilding | |
| 577 | Johan Hilding | |
| 578 | Anonymous | |
| 579 | Anonymous | |
| 580 | Susanne Ågren | |
| 581 | Alfhild Renbro | |
| 582 | Anders Ankarberg | |
| 583 | anne land | |
| 584 | mesut emirdag | |
| 585 | Anonymous | |
| 586 | Melanie Stromberg | |
| 587 | Lena Olsson | |
| 588 | margareta bengtson | |
| 589 | anders bengtson | |
| 590 | Anonymous | |
| 591 | Anonymous | Anything is better than "yuppie flu" |

| EOO | 1 | Fllag Mal/aight |
|------------|-------------------------------|--|
| 592 | | Ellen McKnight |
| 593 | | Anonymous Variation Richards |
| 594
595 | | Kerstin Rinman Debbie Metrustry |
| 596 | | Anonymous |
| 597 | | Anonymous |
| 598 | | Joseph Faletti |
| 599 | | Heléne Jäderberg |
| 600 | | Yvonne Cederholm |
| 601 | Anonymous | |
| 602 | henrik | |
| | simonsson | |
| 603 | Bettan N | |
| 604 | Alana Webster | |
| 605 | Fiona | |
| 606 | David | |
| 607 | Rebecca Taylor | |
| 608 | Anonymous | |
| 609 | I mansell | |
| 610 | Kathleen Hulse | |
| | Georgia Stewart | |
| 612 | Christopher
Smith | |
| 613 | karen harding | |
| 614 | Harriet Elson | |
| | BRYAN | |
| 615 | DENNIS WILDE | |
| 616 | gaston gingues | CFIDS sufferer!! |
| 617 | Ann jacobs | I support research to help reduce and cure ME, chronic fatigue syndrome. |
| 618 | Mia Stridhfors | 3. [] |
| | Karolina | |
| 619 | Westerlund | |
| 620 | Elina | |
| J_J | Westerlund | |
| 621 | Isabelle | |
| 622 | Westerlund
Mikael Bergvall | |
| | _ | |
| 624 | Camilla Bergvall Janice Jones | |
| | anders | |
| 625 | emmerfors | |
| 626 | Janet Thompson | I have had CFIDS for 13 years. |
| 627 | Annette Wright | |
| 628 | Anonymous | I fully agree. |
| | | I believe that a great deal of work needs doing in this field, as many Doctors still do not believe |
| 629 | Anonymous | the condition exists, and those that do, have no idea how to treat someone with ME/CFS. If |
| JZJ | Anonymous | that is the attitude of highly trained individuals, how can we ever expect the public to accept |
| | | that this is a genuine condition. |
| 630 | belinda | Our fate is in your hands |
| 631 | Anette | |
| 632 | Deborah | |
| | Watson | |
| 633 | Anna-karin
Unn-Elin | |
| 634 | Andreassen | |
| 635 | laura | |
| 636 | Jenny Burle | |
| | <u>-</u> | With 3 ME/CFS children in our household we need a definition that encourages more studies |
| | D | not less - and we need psychiatric to be removed from the definition. Our perfectly 3 happy and |
| | | reserved and the policy of the |
| 637 | Pameia Nadeau | previously healthy, intelligent children were fine untili contracting this illness. Psychiatric |

| 638 | Simon Lawrence | This action by the CDC with have long term dragic consequencies for people with Myalygic
Encephalomyelitis and must be changed |
|-----|------------------|---|
| 639 | Karin Caldenfors | |
| 640 | Marly Silverman | |
| 641 | Yvette Taylor | |
| 642 | Amy | |
| 643 | Greg Crowhurst | |
| 644 | Nicole Roesner | |
| 645 | Carole Howard | CFS sufferer since 1982, almost half my life. |
| 646 | | If the Reeves definition (2005) of CFS is used in research, the research that is done will be meaningless, and millions of dollars and years of time will be wasted. The research community would be spinning their wheels and getting no where, while the multitude of people who suffer from the condition are left without the hope of any real answers. Come on, CDC, lets get serious about this and quit wasting our valuble resources! |
| 647 | Lisa Markwart | |
| 648 | melanie | |
| 649 | valerie free | |
| 650 | Anonymous | |

| 651 | Robin Syms | Lets add fibromyalgia to the list. | |
|-----|------------------------|--|--|
| 652 | Y Leach | | |
| 653 | Elaine Cheshire | | |
| 654 | Marry Molendijk | I am a ME mother with 2 ME kids | |
| 655 | Anonymous | Please use the correct defiinition and do the study needed to help all of us who are so sick and disabled by this illness. | |
| | RM and N Cannon | | |
| 657 | B. Isaac | | |
| 658 | Anonymous | | |
| 659 | James Gholston | This definition makes the infamous Fukada definition look great by comparison. If you want a new definition, how about using the Canadian Case definition as a starting point? | |
| 660 | Cynthia M.
Besade | | |
| 661 | deb obrein | | |
| 662 | Penny Green | | |
| 663 | Anonymous | | |
| 664 | Dan Moricoli | | |
| 665 | Margot
LAWRENCE | | |
| 666 | Bethany Wilson | | |
| 667 | Anonymous | | |
| 668 | Anonymous | | |
| 669 | Serena
Blanchflower | | |
| 670 | lain Lee | | |
| 671 | Joan Crawford | | |
| 672 | lilian van Veen | | |
| 673 | Jill McLaughlin | Fatigue is a symptom, not an illness. We need clinical and laboratory-based studies of homogeneous groups of patients to produce meaningful data that can be replicated and used to provide insight into the nature and pathophysiology, not questionnaires that will re-brand CFS as a somatoform mental illness. | |
| 674 | Anonymous | | |
| 675 | Randy Behrends | The Reeves definition has nothing to do with actual CFS/ME, and any creditibility he has or had, is in serious question. I myself feel he has done the MOST HARM to people with CFS/ME than any other person in the history of this disease. He should be stripped of any licenses to practice for violating patient rights, and viloating "to do no harm". The Canadian Consensus Definition is a much better standard to use, with more scientific standards and definitions of this multi system, neurological, chronic immune disease/illness that has affected so many. | |
| 676 | E. B. Blanchard | | |
| 677 | Denise Longman | | |
| | BSc MSc PGCE | | |
| 678 | Paul Kayes | | |
| 679 | Anne-Marie | | |

| ı | Way millayyia z | | ı |
|-----|-------------------------------|--|---|
| | Woynillowicz
Kemp | | |
| 680 | Sherry Leverett | | |
| 681 | Aylwin Catchpole | | |
| 682 | Rico Landman | | |
| 683 | Anonymous | | |
| 684 | Laurence L. Swift | I am surprised that the CDC would want to use a very broad include many people who would not be typical of those sufferi for example, the Incline Village/Lake Tahoe outbreak or the R clear-cut examples of an identical contagious disease. The CI defined CFS, but people suffering from the very clearly definsoon, as they are suffering NOW! Using the Canadian definglandular, allergic, and psychiatric irregularities and m | ng from the original disease as found in, oyal Free Outbreak of 1955, which were DC could maybe research their vaguelyed infectious M.E. need to get answers nition would weed out many cases of |
| 685 | Anonymous | | |
| 686 | Paula Kenley
Freeman | | |
| 687 | Claire Gittoes | | |
| 688 | Lee vanderheiden | | |
| 689 | Tina Beeler | I have Fibromylagia and CFS comes along with the package. Cure!" That is unacceptable this d | I have been given the diagnoises of "No |
| 690 | Christine Robillard | | |
| 691 | Bruce Roberts | | To the same cannot be a great and a great |
| 692 | Bruce Roberts | | |
| 693 | Patrick Hegarty | | |
| 694 | paula | | |
| 695 | Clare Turner | | |
| 696 | Bobbie L. Sellers | I have been ill for over 20 years and the extertional maiais recurrence of intial symptoms on over-exertion have persisted a lifestyle that was productive and enjoyable to learn to sit arou of going out on long distance motorcycle endurance rides who weight training. If i get 14 to 18 hours a day of rest over an excapable of a couple of hours a day | If for all that time. I was forced to give up
und and be passively entertained instead
hich I trained for by running and use of
ttended period (say 6 months) I become |
| 697 | Marilyn W Seskin, | | |
| 698 | MD Judith Beasley | I strongly disagree with Dr. Reeves in CDC in his naming of th CFS for almost 20 years and I know that there are flaws in h | nis thinking. It is infuriating to have had |
| 699 | A | practically all of the symtoms of CFS that are not inc | cluded in his defination of CFS. |
| 700 | Anonymous
Michael Koolhaas | | |
| | Barbara | | |
| 701 | Robinson | | |
| 702 | Suellen Tritt - | | |
| 702 | CFS 18 years | | |
| 703 | gina reynolds | i have suffered with M.E for a number of years,more people
need to be aware of this illness | |
| 704 | Carol Nikolov | | |
| 705 | | The name CFS developed over time from the Tahoe outbreak, then called Chronic Epstein Barre Virus. The CDC has evidently disregarded the original illness & is now studying fatigue at the patients expense. One needs to run a search on the original doctors Cheney & Peterson to see how the CDC has bastardized this illness. | |
| 706 | Anonymous | | |
| 707 | Sherri Hager | | |
| 708 | Anthony Goggins | | |
| 709 | Monte and
Orvetta Conrad | | |
| 710 | Maggie Wallace | | |
| 711 | David J. Kemp | | |
| 712 | Antonia Frigo | | |
| 713 | Carrie Smith | | |
| 714 | A Alexander | | |
| 715 | gaston gingues | | |
| | - | | |

| 716 | Anonymous | Reeves is now discredited and his ties are suspect. The CDC is under investigation for funds not used for CFS research. Real investigations and findings are being ignored by the CDC. Much as MS was considered "hysterical paralysis" ME/CFS will be validated and real progress made DESPITE the CDC by institutions such as the Whittemoore Peterson Institute at the University of Reno, Nevada. The CDC will be revealed as corrupt and idealogical and its leadership role in the world will end. |
|-----|-------------------------------|--|
| 718 | , | |
| 719 | Anonymous
Lisa Baldwin | |
| 720 | Anonymous | |
| 721 | Gareth Flynn | |
| 722 | Carole Jeffries | I wish the CDC would listen to patients. |
| 723 | Nancy Dugas | i wish the ODO would listen to patients. |
| 123 | Nancy Dugas | I have CFS/ME/CFIDS, and was at the first nameing in Oregon |
| 724 | Anonymous | in 1984 and YES YES YES, I will STILL get a LOT of pain and MANY other things within 24 hours of physical excertions. DON"T minimize this for I WILL try to stay in shape-yet I will be in MAJOR PAIN. |
| 725 | Chris Frederick | |
| 726 | diane lindeman | |
| 727 | Christine Bastian | |
| 728 | michael s. allen,
ph.D | |
| 729 | Joan Grobstein,
M.D. | |
| 730 | Karen Gaduyon | |
| 731 | Tatyana Bums | |
| 732 | Sally Koetsveld Michelle | I am new to this but honestly believe that it is something that should not be taken lightly. This is a very painful issue and there should be a lot more being done about it than what has |
| 734 | Sean Kirby | all ready been done. I have had the condition currently known as CFS for 25 years (though I believe that I and many patients with this formal diagnosis actually fit the Ramsay ME criteria better). I have also read through all the scientific literature related to this condition. I do not support the CDC-Reeves version of patient selection criteria. It is so dilute and vague that it is not only of no positive value, it is actual a seriously regressive step for patients and the clinical and research communities. Dump it. |
| 735 | Olive Gagnon | |
| 736 | Anonymous | |
| 737 | Rev. Kathryn J.
Keener-Han | Researchers in the US and overseas are increasing the specificity of definition of Chronic Fatigue Syndrome and related diseases in order to test for clear markers and causitive agents. I encourage the CDC to look into the research and redefinition work by Leonard Jason, et al. This family of diseases cripples productive, active people. My 11 year old daughter was diagnosed at Mayo Clinic after months of abdominal and head ache pain, exhaustion, dizziness and lack of coordination, brought on after a virus. I would not wish this on my worst enemy. We need our citizens to be healthy and function well for the good of society. Thank you for your attention to this request. |
| 738 | Madeline Meixner | |
| 739 | Anonymous | I have had CFS since I was 14 or 15 years old after I nearly died in a car wreck. I have still not been diagnosed with this illness. Now, I no longer have any medical insurance and cannot work. I have no income and is struggling to survive every single day. I hope that you will use the Canadian |

| | | definition of CFS since it is more accurate. Then, if I can get |
|------------|---------------------------|--|
| | | someone to take me to apply for disability I would have a |
| | | chance of receiving some money to help me make ends meet. Thank you for considering this. |
| 740 | Richard Beeler | Thank you for considering the. |
| 741 | Anonymous | I AGREE COMPLETELY IN THIS MANIFESTO |
| 742 | Anonymous | I AGREE COMPLETELY IN THIS MANIFESTO |
| 743 | Anonymous | pétition. ok pour des critères observables et plus de démarches scientifiques |
| 744 | bernadette | THE CDC DEFINITION IS NO REFLECTION ON MYALGIC |
| | bateman | ENCHEPHALMYLITIS. |
| 745 | margaret marh | WII |
| 746 | Kathelijne
Hugaerts | Why yet another CFS definition? The Canadian Criteria are the best to differ chronic fatigue from ME. It is about time that the CDC starts using them. |
| 747 | J. Decker | and the state of t |
| 748 | Becky Darbey | |
| 749 | Chris Bullen | |
| 750 | Richard Bozanich | |
| 751 | Harry Burg | |
| 752 | simon seawright | |
| 753 | FRANCIS | |
| 75.4 | Dominique gunther de bock | this Deefe difficition is total unaccentable. |
| 754
755 | Hugh Rout | this Reefs difinition is totaly unacceptable! |
| 756 | Anonymous | The definition is far too vague and does not properly represent the |
| 757 | Anonymous | symptoms of people suffering from ME/CFS. |
| 758 | Beverly Bryan | |
| 759 | Isabel Webster | |
| 760 | Anonymous | |
| 761 | P.Dacre | |
| | | best wishes form the netherlands - and please get this louzy defenition |
| 762 | henkemans | straightened out! Anneco |
| 763 | sarah wardle | |
| 764 | lain Munro | |
| 765 | Anonymous | |
| 766 | Anonymous | It is time that the CDC and all researchers adopt a definition that is subgrouped, a name that is not dergatory and an attitude that this disease is serious and in need of a solution |
| 767 | Tom McGlynn | For millennia people stayed sick or died because of (excusable) medical ignorance but since the late 20th century PWMEs have witnessed a new (and inexcusable) phenomenon in medicine internationally co-ordinated denial of laboratory evidence of a physiological condition by alleged professionals who, in labelling ME/CF as psychiatric, can only be motivated by personal gain. |
| 768 | Catherine Klatt | |
| 769 | Anonymous | To attempt to trivialize this very serious illness is a travesty. It cannot be |
| 770 | Nancy Henson | allowed to continue. This new defintion does just that. It must be stopped. Research cannot accurately address the illness I have experienced for nearly 25 years with the grossly inadequate and inaccurate defintion now presented. Stop! |
| 771 | Clare | 1 1 |
| 772 | Dianne Lutes | |
| 773 | Anne Welding | I have had CFS/ME for many years & it has devastated the whole family. I want to know that my daughter will be safe from becoming affected & research is key. |
| 774 | Mrs Christine | |
| 114 | Morris | |
| 775 | Benjamin Di
Pasquale | |

| 776 | Anonymous | The 1988 definition of CFS, while not ideal, more accurately reflected the real illness. The Fukuda definition was worse, and the Reeves definition is abysmal. How can the CDC even claim to care about people with CFS (which is really ME)? The more the definition is watered down, the more meaningless and useless is the research. | | |
|------------|--|---|---|--|
| 777 | Anonymous | To classify CFS as a depress
validation that it took 2 years of g
on you for falling in to the | | |
| 778 | Anonymous | | | |
| 779 | Sara | | | |
| 780 | Catherine
Arsenault | peoples lives? I have watche documents to further his own ag | hen are you going to stop playing with d Mr. Reeves go against all written genda When do you plan to be honest have you no integrity? | |
| 781 | pam johnson | | | |
| 782 | John Cubbidge | I think it is shameful that in a time of global recession there are people in extremely well-paid jobs making "scientific" decisions about the health of others with total disregard for the Scientific evidence that is available to them. In other words they are taking money which they have not morally earned! Can Mr Reeves (despite his history) make a Public Statement as to why his definitions are better than the Canadian Guidelines, which empirically demonstrate true science. | | |
| 783 | Rosanne Averill | | | |
| 784 | Anonymous | | | |
| 785 | Claudine M | | | |
| 786 | Strazza
Leo Curbelo | | | |
| | Nadine Porter, | | | |
| 787 | RN | | | |
| 788 | B Chapman | | | |
| 789 | Carol Bass, PhD | I and many others became chronically ill with overwhelming fatigue while working in the EPA Sick Building in Washington, DC in the late 1980s. A good number of us never recovered and work-at-home because of this and other related health effects. Please listen to individuals who have this condition and the physicians who treat them. Remember, it is that community who can give you the best, real-time information. | | |
| 790 | Paul Clavin | illioination. | | |
| 791 | Michael | | | |
| | Stephenson | | | |
| 792 | Carolyn Greer | We have waited 20 years for ME | /CFS to be accepted as a disease and | |
| 793 | Loretta Duzan | now this is being eroded more | We need help and that help will be the physical aspect of this problem. | |
| 794 | Anonymous | More science; I | less psycho-babble | |
| 795
796 | Lin Rout
Susan Wenger | | | |
| | Pris Campbell, | | | |
| 797 | Ph.D. | | | |
| 798 | LaRue Sloan | | | |
| 799 | birgitta bjorlevik | | | |
| 800 | Anonymous | Anonymous | | |
| 801
802 | Maa | Anonymous
han Brasley, Psy.D. | | |
| 803 | | Patricia Brasley | | |
| 804 | , | | | |
| 805 | | Anonymous | | |
| 806 | r | melanie schuster | | |
| 807 | | Patricia Snow | | |
| 808 | CFS: Fatigue is just the most obvious symptom of ME/CFS. | | Anonymous | |
| 809 | Cindee Smolenski Rice | | | |

| 810 | Maria Dillon | |
|-----|---------------------------------|--|
| 811 | | Anonymous |
| 812 | Anonymous | |
| 813 | Adewyn Le BLanc | |
| 814 | Lake | Using inacurate definitions only futher hurts those of us who truely suffer with this debiltating disease. |
| 815 | Alexander M. Constantopoulos II | |
| 816 | DF1 | |
| 817 | Anonymous | |
| 818 | Onora Ni Shuilleabhain | |
| 819 | Garth Coghlan | |
| 820 | Geraldine Lavery | |
| 821 | Anonymous | |
| 822 | Megan Hodges | |
| 823 | Tara Falconer | Please do some wide scale, good quality research someone! |
| 824 | William Rifkin | |
| 825 | Kenneth J. Friedman | The Fukuda case definition was and is a research case definition never intended for clinical diagnosis. However, it has been used as both the research and clinical case definition. Much research has been done using the Fukuda case definition. To abandon it, without compelling reason does a disservice to research and patient care. The definition of CFS does need to be changed but it needs to be changed to a definition that is more precise, not less precise. The Reeves, less precise definition, confounds the research of CFS; it does not help. Going back to the Fukuda case definition, until such times as a more precise definition is developed, would be a step forward! |
| 826 | Shan | |
| 827 | Peggy Walk | |
| 828 | Anonymous | |
| 829 | Doreen Gugler | |
| 830 | william shawver | |
| 831 | P.L. Bourdon | |
| 832 | Aliso Deegan | |
| 833 | Paul Deegan | |
| 834 | Anonymous | I would prefer that you used the much more accurate Canadian definition of CFS for all research. |
| 835 | sigbritt Eliasson | |
| 836 | Josephine Brohoon | |
| 837 | Anonymous | I have the disease called ME?CFS I have had it for 20 years without much research being shown |
| 838 | FAYTH NEWELL | |
| 839 | Lawrence Bourg | |
| 840 | Vickie Selleck | For the science of CFS to advance, we need a scientific and accurate definition. |
| 841 | A.C. | Interviews with patients who have had to endure CFS would define CFS - |
| 842 | Jane Luft | |
| 843 | Roger Winslow | |
| 844 | Patricia Strunck | |
| 845 | Karen Fiala | |
| 846 | Trisha Fisher | |
| 847 | barbara tobias | |
| 848 | Eve Rentko | |
| 849 | billie moore | This definition MUST BE CHANGED. Only the Canadian definition covers the illness with specificity and completeness of symptoms. The CDC is subverting research on CFS/ME. They are hugely biased toward having its thought of as primarily a psychological illness. |
| 850 | Debbie Dietrich | |

| 851 | Judith A Walker-
Riggs | The empirical definition of diabetes as "feels sleepy after a heavy meal" would not have forwarded diabetes research particularly well either. |
|------------|-----------------------------------|--|
| 852 | Ed Emmer | Hot have forwarded diabetes research particularly well cliner. |
| 853 | Anonymous | |
| 854 | Theodore B.
Nilson | I have been affected by what was diagnosed as Chronic Fatigue Syndrome since 1979. |
| 855 | Karen Cassity | Please get the CFS definition right so that homogeneous groups may be studied and a cure found. Have we not suffered enough? |
| 856 | John | CFS/ME is real and brutally debilitating. |
| | Chmielowiec | or or the lord and bratally doblinating. |
| 857 | joey tuan | |
| 858
859 | James Moore
Sarah Owens | |
| 860 | | |
| 861 | Anonymous
Anonymous | |
| 862 | Patricia Birbeck | |
| | | The Canadian definition has good agreement amoung health professionals |
| 863
864 | Bonita Poulin Jeanne Burke | who treat ME/CFS so it should be used at all times! |
| 865 | Martha Reading | |
| | | Because many are suffers of this disease I whole heartly support it. The stigma |
| 866 | Larry Similir | and the personal suffering should make it a priorty! |
| 867
868 | Jeannee Waseck
Larry Smith | |
| 869 | Donna Kuhn | |
| 003 | Donna Kunn | This overly broad definition strikes me as a sweet deal for the psychiatrist/Big |
| 870 | Kathleen
Flaherty, J.D. | Pharma teams hoping to claim CFS as one of their Medically Unexplained Syndromes suitable for psch drugging. Pardon my bluntless, but this is the profit motive run amok. |
| 871 | Sarah English
Perry | |
| 872 | Peter Lecander | |
| 873 | Dawn Cornell | |
| 874 | Barbara Dyke | |
| 875 | Toni Marshall | Because I had PTSD due to a dramaticaly traumatic childhood, I attributed my physical, very weird symptoms to PTSD. I found an excellent, reknowned psychotherapist whom I saw for 13 years who had faith in my ability to overcome PTSD. Yet, I grew worse, physically, which led to disability retirement. I see, after studying what having CFS/OI-POTS means, I was not depressed except by my inability to keep up due to chronic fatigue and other symptoms. Research for my syndrome would be most helpful with a more specific, meaningful definition. |
| 876 | Patrick Cornell | |
| 877 | Nina Bunin | I also have had CFS for 20 yrs. This definition perpetuates a waste of resources, both financial and human. There are so many of us out here cut down at the peak of our careers. What a waste for the United States that we are so ill, and are defined like this. |
| 878 | Anonymous | |
| 879 | Barbara Bell | We need an updated definition of CFS that takes recent findings into account. The definition should be updated periodically, particularly since noone has found an etiology that causes the syndrome. |
| 880 | Kerryn Zechiel | |
| 881 | Anthony | Staten Island CFS/FIBRO Support Group of NYNY, Brooklyn and Staten Island |
| 882 | Schifano, L.R.P.
Kathy Schulik | Statem Island Or on intro Support Group or in that, proonly it and Statem Island |
| 883 | allison hurwitz | |
| 884 | James Ross,
PhD | I have suffered from ME/CFS/CFIDS for more than twelve years. My decades long private practice as a licensed clinical psychologist was in partnership with multi-specialty medical and research centers. I recommend the use of the "Canadian" ME/CFS definition. Operationalizing the Fukuda definition was a very unfortunate mistake. |
| 885 | ann sautter | |

| Melinda D. | | i | |
|--|-----|----------------|---|
| 887 CHALMERS Rosemary Underhill 889 Nancy Rettberg Anthony Yannotia 391 Jane Callen 392 Mary C Towles 393 Marlene Wentzeil 394 Julie W 395 Crystal Reese 396 Lesie Little 397 Ann Bodio 398 Peter C. Kulken 398 Nancy Kulken 390 Nancy Kulken 390 Nancy Kulken 390 Nancy Kulken 391 Michel Roy 392 Annymous 393 Joe Spia 394 Lois Robinson 395 Very Rettberg 396 Lesie Little 397 Annymous 397 Nancy Kulken 398 Nancy Rettberg 399 Nancy Kulken 390 Nancy Kulken 390 Nancy Kulken 391 Michel Roy 392 Annymous 393 Joe Spia 394 Lois Robinson 395 Keptanie Reid 396 Lesie Little 397 Annymous 396 Lesie Annymous 397 Very Lesie Annymous 398 Rettberg 399 Rettberg 390 Rettberg 390 Rettberg 391 Very Lesie Annymous 392 Annymous 393 Stephanie Reid 393 Ria Bagnato 399 Joj Joyce kaye 390 You need a better definition of clids! It is a neurological immune disease! 398 Christine 399 Lesie Annymous 399 Please continue all support and research for CFS 399 Annymous 391 Annymous 391 Paul Thome 392 Annymous 392 Annymous 393 Annymous 394 Annymous 395 Michael Nicoles 396 Annymous 397 Paul Thome 398 Please Can we move forward not backwards!! 399 Please can we move forward not backwards!! 391 Please Can we move forward not backwards!! 391 Please Can we move forward not backwards!! 392 Annymous 393 Maryann 394 Maryann 395 Maryann 395 Darken 396 Maryann 397 Paul Thome 398 Please Can function for all to know that fatigue is not the main item for this illness. 399 Maryann 390 Maryann 391 Michael Nicoles 390 Annymous 391 Michael Nicoles 391 Michael Nicoles 392 Annymous 393 Maryann 394 Maryann 395 Stephanie Reid 395 Please Can function for all to know that fatigue is not the main item for this illness. 390 Maryann 391 Michael Nicoles 391 Maryann 392 Maryann 393 Maryann 394 Maryann 395 Stephanie Reid Stephanie Reid Stephanie Researcher Stephanie Reid Stephanie Reid Stephanie Researcher Stephanie Researcher Stephanie Researcher Stephanie Researcher Stephanie Researcher Stephanie Reid Stephanie Researcher Stephanie Reid Stephanie Reid Stephanie Reid Stephanie Reid St | 886 | | |
| Rosemary Warnotta | 887 | ROBERT | |
| Nancy Retiberg | 888 | Rosemary | |
| Anthony | 889 | | |
| Mary C Towles | 890 | Anthony | |
| Mary C Towles Say Marlene Wentzell | 891 | | |
| Marlene Wentzell | | | |
| Sept and some some some some some some some some | _ | | |
| Crystal Reese Leslie Little | _ | | 11 |
| Leslie Little | _ | | |
| Peter C. Kuiken Peter C. K | _ | | |
| Peter C. Kuiken Nancy Kuiken Nancymous N | _ | | |
| Nancy Kuiken Anonymous | | = | |
| Michaelle Roy | | | |
| Michelle Roy Anonymous | | • | |
| Social Policy | | | |
| Joe Sipia Lois Robinson I suffered from Chronic Fatigue for several years. It is very debilitating to say the least. Please help. | | | |
| Surane Straub Please can we move forward not backwards! Please than pollika Romanna Plea | _ | - | |
| Tom lacovone Jim Lucas Tom lacovone Jim Lucas Stephanie Reid Rita Bagnato Rita Bagnato You need a better definition of cfids! It is a neurological immune disease! Christine Emmanuel Rita Bagnato Please continue all support and research for CFS As a patient suffering with CFS for some thirteen-plus years with no substantial relief, I must oppose any change that would move the definition of CFS and research regarding CFS further out of view of the CDC and the medical community at large. Anonymous Suzanne Straub Please can we move forward not backwards!! Please can we move forward not backwards!! Please can we move forward not backwards!! Arienne Dellwo Anonymous My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition of everything that she had hoped to achieve during her lifetime. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserves oo much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only allows Drs , profestional and layman look at us as they have in all these | 904 | | |
| 907 Jim Lucas 908 Stephanie Reid 909 Rita Bagnato 910 joyce kaye You need a better definition of cfids! It is a neurological immune disease! 911 Christine Emmanue! 912 George Colby Please continue all support and research for CFS As a patient suffering with CFS for some thirteen-plus years with no substantial relief, I must oppose any change that would move the definition of CFS and research regarding CFS further out of view of the CDC and the medical community at large. 914 Anonymous 915 Suzanne Straub 916 Elizabeth Thome 917 Paul Thome 918 Adrienne Dellwo 919 Michael Nicoles 920 Anonymous 921 Karen shannon My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition oldes not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. 923 Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only allows Drs , profestional and layman look at us as they have in all these | 905 | Carl Rettberg | |
| Stephanie Reid Step | 906 | Tom lacovone | |
| Provided Research Prov | 907 | Jim Lucas | |
| 910 joyce kaye You need a better definition of cfids! It is a neurological immune disease! 911 Christine Emmanue! George Colby Please continue all support and research for CFS 913 Tracy Lee Bird As a patient suffering with CFS for some thirteen-plus years with no substantial relief, I must oppose any change that would move the definition of CFS and research regarding CFS further out of view of the CDC and the medical community at large. 914 Anonymous Suzanne Straub 915 Suzanne Straub 916 Elizabeth Thome Please can we move forward not backwards!! 917 Paul Thome Please can we move forward not backwards!! 918 Adrienne Dellwo Michael Nicoles 920 Anonymous 921 Karen shannon My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. 923 Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only alows Drs , profestional and layman look at us as they have in all these | 908 | Stephanie Reid | |
| Christine Emmanuel George Colby | 909 | Rita Bagnato | |
| 911 Emmanuel 912 George Colby Please continue all support and research for CFS As a patient suffering with CFS for some thirteen-plus years with no substantial relief, I must oppose any change that would move the definition of CFS and research regarding CFS further out of view of the CDC and the medical community at large. 914 Anonymous 915 Suzanne Straub 916 Elizabeth Thome Please can we move forward not backwards!! 917 Paul Thome 918 Adrienne Dellwo 919 Michael Nicoles 920 Anonymous 921 Karen shannon My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. 923 Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only allows Drs , profestional and layman look at us as they have in all these | 910 | | You need a better definition of cfids! It is a neurological immune disease! |
| Please continue all support and research for CFS | 911 | | |
| Tracy Lee Bird Must oppose any change that would move the definition of CFS and research regarding CFS further out of view of the CDC and the medical community at large. 914 Anonymous 915 Suzanne Straub 916 Elizabeth Thome 917 Paul Thome 918 Adrienne Dellwo 919 Michael Nicoles 920 Anonymous 921 Karen shannon My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only allows Drs , profestional and layman look at us as they have in all these | 040 | | Diagram and force all assessment and assessment for OFO |
| Tracy Lee Bird must oppose any change that would move the definition of CFS and research regarding CFS further out of view of the CDC and the medical community at large. 914 Anonymous 915 Suzanne Straub 916 Elizabeth Thome 917 Paul Thome 918 Adrienne Dellwo 919 Michael Nicoles 920 Anonymous 921 Karen shannon My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her liffetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying this original illness. 923 Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only allows Drs , profestional and layman look at us as they have in all these | 912 | George Colby | |
| 914 Anonymous 915 Suzanne Straub 916 Elizabeth Thome Please can we move forward not backwards!! 917 Paul Thome 918 Adrienne Dellwo 919 Michael Nicoles 920 Anonymous 921 Karen shannon My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. 923 Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only allows Drs , profestional and layman look at us as they have in all these | 913 | Tracy Lee Bird | must oppose any change that would move the definition of CFS and research regarding |
| Please can we move forward not backwards!! Please can we move forwards!! Please can we move forward not backwards!! Please can we forward not backwards! Please can we forward not backwards! Please can we forward not backwards! Please can | 914 | Anonymous | , v |
| Thome Please can we move forward not backwards!! Paul Thome Adrienne Dellwo Please can we move forward not backwards!! Paul Thome Adrienne Dellwo Please can we move forward not backwards!! Adrienne Dellwo Please can we move forward not backwards!! Adrienne Dellwo Please can we move forward not backwards!! Adrienne Dellwo Please can we move forward not backwards!! Adrienne Dellwo Please can we move forward not backwards!! Adrienne Dellwo Please can we move forward not backwards!! Adrienne Dellwo Please can we move forward not backwards!! Adrienne Dellwo My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. Page Anonymous We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only alows Drs , profestional and layman look at us as they have in all these | 915 | Suzanne Straub | |
| 917 Paul Thome 918 Adrienne Dellwo 919 Michael Nicoles 920 Anonymous 921 Karen shannon My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. 923 Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only allows Drs, profestional and layman look at us as they have in all these | 916 | Elizabeth | Please can we move forward not backwards! |
| 918 Adrienne Dellwo 919 Michael Nicoles 920 Anonymous 921 Karen shannon My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only alows Drs , profestional and layman look at us as they have in all these | | | r lease can we move forward not backwards:: |
| Dellwo | 917 | | |
| 920 Anonymous 921 Karen shannon My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only alows Drs , profestional and layman look at us as they have in all these | 918 | | |
| 921 Karen shannon My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only alows Drs, profestional and layman look at us as they have in all these | 919 | | |
| My daughter has been ill for over 20 years with CFIDS. It has taken away almost everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only alows Drs, profestional and layman look at us as they have in all these | 920 | Anonymous | |
| everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying the original illness. Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only alows Drs, profestional and layman look at us as they have in all these | 921 | Karen shannon | |
| 923 Maryann Dartnell We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only alows Drs , profestional and layman look at us as they have in all these | 922 | Anonymous | everything that she had hoped to achieve during her lifetime. This new definition does not express the illness that my daughter acquired in 1989. If current researchers use the new, empirical definition, they will not be studying the same illness. This new definition allows a much broader scope of patients to be studied, thereby, diluting the findings of the researchers. They will not find a cure or treatment for my daughter or the many others who have been sick for so long and deserve so much more respect than they are receiving by our very own CDC. Please scrap the new definition and get back to studying |
| We need to have a better defination for all to know that fatigue is not the main item for this illness. My life has been runied by this illness and with the CDC not defineing it better it only alows Drs, profestional and layman look at us as they have in all these | 923 | | y |
| 4 Anonymous this illness. My life has been runied by this illness and with the CDC not defineing it better it only alows Drs , profestional and layman look at us as they have in all these | 323 | | |
| | 924 | Anonymous | this illness. My life has been runied by this illness and with the CDC not defineing it better it only alows Drs, profestional and layman look at us as they have in all these |

| 925 | Deborah L
Sherman | |
|-----|-------------------------------|--|
| 926 | Kathy Lorentz | |
| 927 | Rachel Shelton | |
| 928 | Anonymous | |
| 929 | Lars Morgan | |
| | jacqui | When is Myalgic Encephalomyelitis going to be recognised as a physical illness. When |
| 930 | butterworth | are governments going to fund proper medical research? |
| 931 | Charlotte Olson | and governmente going to tain a proport measure recovering |
| 000 | Jeffrey S. | |
| 932 | Rettberg | |
| 933 | Amy L | |
| | Cuzzupoli | |
| 934 | Stephen Greer | |
| 935 | Anonymous | |
| 936 | Tammy | |
| | Alexaner | |
| 937 | dennis oreilly | |
| 938 | Sue B. | |
| 939 | Margaret | |
| 940 | Rumney
Janis Slorance | |
| 940 | Allan Moore | |
| 941 | | |
| 942 | Alex Morgan | |
| | Rich Carson
Louis Reginato | |
| 944 | Jr | |
| 945 | Tim Gardner | |
| 946 | Anne Lorraine | |
| | Richards | |
| 947 | Natasha | |
| 948 | Todd Monje | |
| 949 | Vera K White | T T |
| 950 | Emma-Louise
Case | |
| | Ouse | |

| 951 | Stacey | |
|-----|---------------------|---|
| 952 | Valerie Lehnert | |
| 953 | Judy G Ranney | |
| 954 | Brenda Conway | I am concerned that lumping CFS with other illnesses (such as depression) will only give ammunition to those who wish to "blame the victim" and trivialize our disease by labeling it as a psychiatric or psychological maladjustment, not the organic disease which it is. |
| 955 | Anonymous | Whatever can be done to get more research of CFS. should be. |
| 956 | Anonymous | |
| 957 | Anonymous | |
| 958 | Naomi Flanagan | |
| 959 | Cheryl Irwin | Please stop using the empirical definition of Chronic Fatigue. |
| 960 | Anonymous | |
| 961 | Mary Arispe | |
| 962 | bernadette bateman | I AGREE WITH YOUR CONCERNS ABOUT THE PROBLEMS THE PRESENT DEFINITION WILL CAUSE FOR RESEARCH IN ME. |
| 963 | Christina Omorochoe | |
| 964 | Tracy Sturgell | I too suffer from this horrible illness. I was diagnosed in 2005. I agree a more specific definition that includes the post-exertional malaise should be accepted and used. That symptom is huge for me. |
| 965 | kamala Jesrani | |
| 966 | Carolyn Siegrist | |
| 967 | Marc Cohen | |
| 968 | Annabel Luery | |
| 969 | Anonymous | |
| 970 | AJ Lee | |

| 074 | D. 0' | I |
|------------|--------------------------------|--|
| 971 | R. Simpson | |
| 972 | Lajla Mark | |
| 973 | Sheila Statlender, Ph.D. | |
| 974 | Victoria | |
| 975 | Ellen V. Piro | |
| 976 | Judith Richman, Ph.D. | Leonard Jason and I have published on the serious shortcomings of this definition in the Journal of Chronic Fatigue Sydrome. The use of this definition in empirical research produces completely flawed research as these studies are more about patients with major depression rather than CFS. I care deeply about the need to get at the root etiology of CFS, and using this definition will get us nowhere in this endeaver. |
| 977 | Jesse Lemisch | |
| 978 | robert lerman | |
| 979 | Anonymous | it is tuff enought for us without playing around with the difinition |
| 980 | Regina Clos | Also in Europe the "empirical" definition will have devastating effects for people with ME/CFS because it lumps together all kinds of "fatigue" states and people with ME/CFS will disappear in this large group as a minority. Studies on the basis of this "definition" will do more harm than good for us. Remember, still the CDC have a very good reputation in Europe - but this may change with things like this. |
| 981 | Jules De Cuyper | |
| 982 | R. Wong | |
| 983 | Karen Riem | |
| 984 | Esther N. Shelley | Please do not change the definition of CFS as it has the potential to swing the issue from physiological to phsycological, allowing for greater misdiagnosis. |
| 985 | Anonymous | priyolological to priojeological, allowing for greater misulagnesis. |
| 986 | FRANK McBRIDE | |
| 987 | David Moor | |
| 988 | david christie | |
| 989 | Anonymous | People are dying. |
| 990 | Katrina | r eople are dying. |
| | | |
| 991 | Anonymous | |
| 992 | Anonymous | |
| 993
994 | john wadiak
Lillian Greeley | I would like the definition of CFS to describe the clear neurological and metabolic dysfunctions |
| 995 | Vasili Romanzov | that are not currently reflected in the name. |
| 996 | barbara gershenbaum | |
| 997 | em katz | |
| 998 | Elizabeth Silver | |
| 999 | Gurli H Bagnall | Reeves proposal misrepresents the facts and cannot be tolerated. |
| 1000 | Sharon Kobrin | |
| 1001 | Edwin Overtoom | I am the husband of a woman who has lived with CFS since 1997. |
| 1002 | Anita Burgess | |
| 1003 | Erik Johnson | |
| 1004 | Donald Oas | cfs has ruined my life, we need more funding for research and a proper and meaningfull name |
| 1005 | Sue Bailey | if the "empirical" definition of CFS is allowed to stand, the CDC will have succeeded in transforming the disease from a serious, progressive, multisystem, multi-causal disease into a case of incorrect thinking and incorrect emotions. Any treatment based on the "empirical" definition will be either useless or harmful for most people. |
| 1006 | Crystal Whiting | |
| 1007 | E Schuman | |
| 1008 | astrid gommers | |
| 1009 | Anonymous | Dr. Reeves definition will hurt CFS patients and I would like to ask how many more lives will be lost as a result? |
| 1010 | Jason Johnston | |
| 1011 | Anonymous | |
| 1012 | Diane Nelson Jones | |
| 1013 | Jon Krahmer | Yes |
| 1014 | Ken Davis | |
| 1015 | Paula Carnes | |
| 1016 | brenda Brill | |
| 1017 | D. Schneider | |
| 1018 | Gregory A Stiffler | I have had CFS now for at least 10 years; perhaps, I have had it longer; its been 10 years this may since the severe fatigue took my job away |
| 1019 | Joyce Waterhouse | Dr. Jason knows more about defining this condition than anyone and thus I sign this petition. |
| | 22,00 114101110400 | and the most decay as a ming the containent than anyone and that toget the polition. |

| | | CBT and graded exercise are only palliative or just give temporary improvement to those with |
|--------------|------------------------------------|--|
| 4000 | | milder levels of disease. Severe post-exertional malaise is a primary symptom and should be a requirement. The CDC |
| 1020 | James Schinnerer | should adopt the Canadian Expert Consensus Panel Clinical Case Definition for ME/CFS. |
| 1021
1022 | Anonymous
Erika Pyner | |
| 1022 | | Recognition of the physical, physiological nature of the disease misnamed CFS is long overdue. |
| 1024 | Jimmie Holman | recognition of the physical, physical gloar natare of the allocate mishaned of the long overdue. |
| 1025 | Anonymous | |
| 1026 | Anonymous | |
| 1027 | Barbara W. Miller | |
| 1028
1029 | Kristin Lindgren Anonymous | |
| 1030 | Jane S. Millerick | |
| 1031 | Collette | |
| 1032 | Anonymous | |
| 1033
1034 | Anonymous | |
| 1034 | Jill Lynch
Brenda | |
| 1036 | Amy Tipton | My aunt has lived with CFS for a really long time. Took a long time to get a proper diagnosis. |
| 1037 | Bernhard Liedtke | , 5 3 |
| 1038 | Lia Metz | |
| 1039
1040 | Nina Otazo
Karen Morales | Please stick with solid science and remove the empirical definition to define CFS. Thank you. Please take this illness seriously! |
| 1040 | Anonymous | Please take this nimess seriously! |
| 1041 | Anonymous | I have had "CFS" for 15 years and it has devastated my life, although I am not depressed. I |
| | W. Morton Caldwell, PE | resent any "CFS" definition that includes any psychological factors whatsoever, as I damn well know "CFS" is a purely physiological disease. One has to have "CFS" to realize this. "CFS" can cause depression, as can any other serious disease, but depression does NOT cause "CFS". CDC - your cause and effect reasoning is backwards! Hanging mental causes on "CFS" is a cheap way out - the real causes of "CFS" are mostly unknown and involve complex cellular biochemistry and molecular biophysics. Yeah, I know these are much more difficult to learn and apply than psychological theories, and involve a lot of knowledge of complex engineering feedback systems and higher mathematics, but doing real research requires hard learning of difficult disciplines. This commentary is from a non-depressed and non-psychotic Electrical Engineer and Cardiovascular Physiologist, who worked in both fields for 35 years, before being disabled by "CFS". The name "CFS" is inaccurate and degrading; if you want to do something constructive, change it to a meaningful and non-insulting name that uses neither fatigue or syndrome. Why not simply use its real name? |
| 1043 | Ted Shaw | |
| 1044 | Elly Kate | It would be great to change the name for CFS! |
| 1045 | Anonymous | This definition does not properly distinguish CFS from other disorders with some of the symptoms of CFS. Proper research cannot be done in CFS unless there is an established criteria used that properly defines this serious illness. |
| 1046 | J. E. Brown | OFT DID OF THE NEW DEEVEO DEFINITION AT ODO! |
| 1047
1048 | Viviane Lemer, Ph. D. susan hogben | GET RID OF THE NEW REEVES DEFINITION AT CDC! |
| 1049 | HM Sobetzko, M.D. | The use of the empirical definition in research will produce fundamental confusion about the severity and nature of CFS. |
| 1050 | James Watson | Reeves definition is a travesty of the truth. |
| 1051 | Tilla Rundhaug | |
| 1052 | Anonymous | |
| 1053 | Anonymous | |
| 1054 | vanessa vaughan | |
| 1055 | Anonymous | |
| 1056
1057 | Darren Nesbitt | |
| 1057 | Jenny Mietzcke
A Walsh | |
| 1058 | Dan Horovitz | |
| 1009 | Darriolovitz | God help us if CFS is reduced to depression. I have been ill for 20 yrs and am in Panama as I |
| 1060 | Susan Lucey | type this. I am about to receive stem cells. After tens of thousands of dollars spent over the years looking for a cure No depressed person would be doing what I have done to get well. Please wake up and recognize this disease. |
| 1061 | Denise Longman | |

| 1062 | Michael Attwood | I agree |
|------|--|---|
| | | CFS is not ME. This is in the CDC guidelines for CFS. Where are the CDC guidelines for ME |
| 1063 | Jennifer McBryde | and why is there no research into this illness. |
| 1064 | Tanya Trick | We have three with Celiac Disease, that have been diagnosed in our family. |
| 1065 | Peter D Falconer | I have a family member severely affected by CFS, and it was difficult to have the condition recognised and acknowledged by government authorities. |
| 1066 | Reidun Gran Alkanger | , , , , , , , , , , , , , , , , , , , |
| 1067 | Rinchen Dorje | Viral onset CFIDS/ME is a clinically and pathologically discreet disease entity. Lumping it together with every other unexplained chronic illness that has fatigue as a symptom would be a ridiculously unscientific disaster that will confound all research and completely ruin any chance to cure CFIDS/ME. Including patients with psychiatric conditions is even more unscientific, will even further confound ressearch, and is an unacceptable outrage to all of us legitimately ill with the proven physical pathology of CFIDS/ME. |
| 1068 | Amanda Hume | I have had CFS for 5 years, only diagnosed 2 years ago. It has ruined my life and i want nothing more than to return to normality and be able to perform ordinary daily things that are a continuous struggle. |
| 1069 | Anonymous | |
| 1070 | Anonymous | |
| 1071 | Sharon Spicer | |
| 1072 | Robert Service | The effort that is being put into obscuring the nature of this disease is remarkable. Too bad the work could not have been put into actually curing it. I guess it really is effective to hide something in plain view of everyone. |
| 1073 | Marla Stice | |
| 1074 | Ms Manning | |
| 1075 | Tonette Hartmann | Not only would I like the CDC to update their "empirical" definition of CFS be changed, I also DESPERATELY wish that the name "Chronic Fatigue Syndrome" or "Chronic Fatigue & Immune Dysfunction Syndrome" be changed to reflect the severity of this illness and perhaps leave the word "fatigue" out of the name entirely, since people mis-perceive it as the same type of fatigue everyone feels at points. |
| 1076 | Judith Wisdom | |
| 1077 | Robbi Patterson | |
| 1078 | ccodella | My brother in law suffers from this as well and it is debilitating at times. |
| 1079 | Janet Knight | This disease is a complex multi-factorial condition. Using the so called "empirical" definition will decrease the validity of studies on CFID"s. |
| 1080 | Linda Ferris | Please stop using the "empirical" definition (AKA Reeves 2005 definition). |
| 1081 | Sylvia Perrine | |
| 1082 | Elizabeth Kane | |
| 1083 | GILLIAN BARCLAY | |
| 1084 | Jenny Dow | |
| 1085 | lan Barr | |
| 1086 | Harriet Humby | |
| 1087 | Anonymous | |
| 1088 | Garry Jones | |
| 1089 | Hege Renate Lochting | |
| 1090 | Aisling Doherty | |
| 1091 | Lynn Croas | |
| 1092 | Stop spending taxpayer money on this bogus "research". | |
| 1093 | Jonathan humby | |
| 1094 | Anonymous | |
| 1095 | Elizabeth Wayne | |
| 1096 | Anonymous | |
| 1097 | Anonymous | As a one-time research scientist I am horrified at the so-called empirical definition. Widening the definition of a condition to such an extent that almost any desired "result" can be obtained is either incompetent or une |
| 1098 | Jayne Waldman | |
| 1099 | Anonymous | |
| 1100 | Rebecca Bailey | |

| 1101 | Bonita Poulin | |
|--------------|---------------------------------|--|
| 1102 | Karen R. | |
| | Schoen | |
| 1103 | Carol Festejo | |
| 1104 | Anonymous | |
| 1105
1106 | matthew smith | |
| 1107 | Rachel Porter
Janice Allen | |
| 1107 | Karen Harrell | |
| 1109 | lain Lee | |
| 1110 | Anonymous | |
| 1111 | Emily Spivey | |
| 1112 | Jan Slama | |
| 1113 | De Wit Etienne | |
| 1114 | Julie Woodside | This definition will do unimaginable harm to current and future patients and research of this illness. |
| 1115 | Cammie Redlin | This definition will do animaginable name to content and ratero patients and resocator of this illinose. |
| 1116 | hilde maes | |
| | Stephen Spence | |
| 1118 | Jill Down | It is so important that this definition is not used. People with depressive/psychiatric illnesses need specific research and treatment programmes and people with CFS/ME deserve the same. They are not |
| | | interchangeable. |
| 1119 | Alan Gurwitt | |
| 1120 | Mariska van | |
| | Roijen | |
| 1121 | Carrie Presley | |
| 1122 | Nancy Hall, | |
| 4400 | ATRL
Hayley Klinger | |
| 1123
1124 | Trudie Doorduin | |
| 1125 | pamela black | I have all of these illness and i am slowly dying so while u big wigs decide i'm dying here. |
| 1126 | Sunny Holmes | Thave all of these lilliess and rain slowly dying so write a big wigs decide i in dying here. |
| 1127 | Jim McManus | |
| 1128 | Ray Lovelace | |
| 1129 | Arlene Rubb | |
| 1130 | Layla Collins | |
| 1131 | Anonymous | |
| 1132 | Anonymous | |
| | Lawrence | The deficition should include the language most challe should be CCC |
| 1133 | Plumlee | The definition should include the known metabolic changes seen in CFS. |
| 1134 | Anonymous | |
| 1135 | Paulinbe Sykes | |
| 1136 | Kim Cantrell | |
| 1137 | sue smith | |
| 1138 | R. Sanderson | I have lost 20 years of my life to this illness - please give this illness the proper attention and research it deserves God knows I will not live long enough (at the rate federal agencies are going) to make substantial improvement (as most us who became sick during late 1980s find ourselves on steady decline / deterioration) but please do so for those at the prime of their lives and esp. the youth!! |
| 1139 | Anonymous | |
| 1140 | Linda Foley | |
| 1141 | Anonymous | The state of the s |
| 1142 | Debbie
Whittaker | I have had fibromyalgia since a car accident in 1977. Does this affect the fatigue portion of this syndrome as well? |
| 1143 | Maryka Ford | |
| 1144 | Jeannette | |
| 1145 | Laframboise Peter Ottem | CFS/ME has devastated my life. There needs to be serious ongoing clinical research into the causes |
| | | and treatment of this curious and destructive illness. |
| 1146 | Ines Collins | |
| 1147
1148 | Margaret Palmer
Emma Collins | |
| 1149 | Anonymous | |
| 1150 | phil evans | |
| 1130 | prin evans | |

| 4454 | Rowena | |
|--------------|---------------------------|--|
| 1151 | Chodorow | |
| 1152 | Carla Gardner | |
| 1153 | David Trimble | |
| 1154 | Susan Schirott | |
| 1155 | James Mather | |
| 1156 | Patricia L.
Strickland | |
| 1157 | Anonymous | |
| 1107 | Allorrymous | Please, if you are human, you will NOT make this illness more difficult than it already is. Living with a |
| 1158 | Deanna
Brownlee | chronic illness can be a living hell that others refuse to acknowledge and understand. These new definitions would only serve to stomp on the broken pieces that were once complete souls. DO NOT DO THIS. |
| 1159 | Daniel Bowen | |
| 1160 | Barbara
Brainard | |
| 1161 | Amy Roth | |
| | Barbara | CFS is not a psychological condition. For me it has taken away my life as I knew it and now I have |
| 1162 | Lawson | constant severe pain, very tired and low immune system, just to name a few. |
| 1163 | Pat Henderson | |
| 1164 | Jeran Stephens | |
| 1165 | Rebecca | |
| 1166 | Cordingley
Anonymous | |
| 1167 | Tim Hill | The only definition of CFS that governments should authorise is the 2003 Canadian Definition. |
| 1168 | Paul Doyon | The only definition of or a trac governments should additions is the 2003 dahadian belinition. |
| 1169 | Anonymous | |
| 1170 | Steve | |
| | Chodorow | |
| | Bridget Gardner | |
| 1172 | Anonymous | |
| 1173 | Anne | |
| 1174
1175 | Rebecca LFP
Anonymous | |
| 1176 | Khaly Castle | |
| 1177 | Peter Mitchell | |
| 1178 | Anonymous | |
| 1179 | K. J. Rogers | |
| 1180 | lan Fulks | |
| 1181 | Anonymous | |
| 1182 | Virginia | |
| 1183 | Thompson
RJ Kanwar | |
| | Cecile | |
| 1184 | Appelmans | |
| 1185 | Patricia Carter | |
| 1186 | andrea cope | |
| 1187 | Corien | |
| 1188 | sanne peters | We do not have a list of lab tests or procedures that can define CFS, nor a list of effective treatments, |
| 1189 | B. Amy Clouse | because we have spent so much energy worldwide in blaming the victims of the disease rather than attempting to find the etiology, define the pathology, and mitigate or cure the progression. Not using the current empirical definition will allow a more precise diagnosis. This will allow researchers to focus on CFS, rather than trying to discern if the diagnosis is valid. We once considered sickle cell anemia to be a "garbage" diagnosis; we now know it is a serious illness in those of African descent worldwide. We need to learn from this error rather than repeating it. |
| 1190 | Rosie Page | The "empirical" definition would channel future research into CFS, a serious physical illness, in a |
| 1191 | rhonda poole | psychiatric direction and result in inappropriate and possibly damaging treatment for sufferers. people should understand what us sufferers of this cfs is like i would not wish this on my worst enemy as its not living |
| 1192 | Els Van Hoof | ao no no na mang |
| 1193 | Nicola Reiss | |
| 1194 | Sue Klaus | You must, for once, consider what is best for the patients - their diagnosis, their care, and their return to some semblance of health. |

| 1195 | Suzan Jackson | I have had CFS for 7 years, and both of my sons - ages 11 and 14 - have it as well. We are desperate for solid CFS research that can lead to effective treatments. Diluting the definition of CFS to include a broader population results in research that is less focused and less useful. I would prefer that the Canadian CFS/ME definition be used in the US but would settle for sticking with the 1994 Fukuda definition. |
|------|----------------|---|
| 1196 | Anonymous | |
| 1197 | Barbara Riggio | |
| 1198 | Shary Kee | |
| 1199 | Robin Cupp | The Reeves definition seems like just a way to quit looking for solutions to the problem. Are their any Doctors left looking for actual solutions to real health problems? |
| 1200 | Diane J | |
| 1200 | Standiford | |

| 1201 | Miriam Childs | |
|--------------|-----------------|--|
| 1201 | John T. McCrea | |
| 1203 | t logan | inflamatory immune condtions are too common place today - there IS a cause |
| 1204 | Nancy Carlson | minumately minume conditions are too common place roday and to a cade |
| 1205 | Cathy Horn | |
| 1206 | Sucan | I am one more CFS patient who has never understood the fatigue of CFS. I spent 5 years in bed unable to elevate my head, unable to sleep, and in full body pain. It took years to "recover" from what I now see as the acute part of this illness and my life with the chronic version is like walking a tightrope. If I do one too many tasks in a day I am back in bed for days. I have been sick for 15 years. The illness has moved through multiple body parts and systems - endocrine, brain and heart. Whatever CFS is, it covers it tracks which is probably not that tough since the CDC is not looking for it. My body can not supply the energy it needs - I am weak not tired so get anyone who needs more sleep out of my definition! |
| 1207 | Anonymous | |
| 1208 | Vicki Waldman | |
| 1209 | Anonymous | |
| 1210 | Omar Nunez | |
| 1211 | Anonymous | |
| 1212 | Paula Bilton | |
| 1213 | Anonymous | |
| 1214 | sally arnold | This illness is world wide and we in the US need to get on board with the others who name this ME. The Canadian defintion is a good start |
| 1215 | Anonymous | Those that are severely affected need to be recognised as such, rather than watering down this terrible disease which is so misunderstood anyway. This would just cause further confusion and misunderstanding. |
| 1216 | Nicole Roesner | 9 |
| 1217 | Paulien van | |
| 1217 | Rooij | |
| 1218 | Chloë Moíra | |
| | Smith | |
| 1219 | Anonymous | |
| 1220 | Anonymous | |
| 1221 | Rhoda | |
| | Freeman | |
| 1222 | Michael Larmer | |
| 1223 | lan Johnson | |
| 1224 | | 1 |
| 1225 | Heather Falks | dis- |
| 1226
1227 | Anonymous | tks |
| | Ranjit Kanwar | |
| 1228 | Chris Ruhl | CEC is a real anidomic Doople pood halfs that indicates for some distance assembly to |
| 1229 | Patricia Ormsby | |
| 1230 | Helen | I have been ill for over 10 years now and do not believe that the new (Reeves) definition accurately describes this condition. This devastating illness needs and deserves far more medical research and money to help those of us who are severely disabled. 0 |
| 1231 | Christina | |
| | Lucey-Ventura | , |
| 1232 | Pella Schafer | |
| 1233 | Marna He Sapa | Strauss blew off the Incline Village Outbreak in 1984, and CDC has consistently been useless in meaningful work on ME/CFS since. Reeves continues to undermine any hope of taxpayer funded research. Who benefits? Not research or patients, not public health, public purse, public productivity. |

| | | Why is Reeves still employed in this position? |
|--------------|-----------------------------------|---|
| 1234 | Donna m. | Trinjie receive emilientele mane position. |
| 1234 | Bentkowski | |
| | As a person | |
| | affected by long
term ME/CFS I | |
| 1235 | do not support | |
| | the CDC | |
| | definition of the | |
| | illness. | |
| 1236 | Pat Meier | |
| 1237 | Kristin Popelka | |
| 1238
1239 | marie moore
Dan Green | |
| 1240 | Jane Wingfield | |
| 1241 | Patricia Meier | |
| 1242 | sylvie joy | |
| 1243 | Deborah | |
| 1273 | Covington | |
| 1244 | Debbie | |
| 1245 | Anderson
Anonymous | |
| 1243 | Anonymous | If the Centers for Disease Control and Prevention (CDC) use the "empirical" definition[1] (also known as |
| | | the Reeves 2005 definition) to define Chronic Fatigue Syndrome (CFS) patients in CFS research, they will dilute the existing CFS data sets with obstensivly meaningless muddled and unspecific data that will |
| | | hamper the research and discovery of the true causes, triggers and biological mechanisms of CFS also |
| 1246 | Alistair Mills | known as CFIDS as the Reeves 2005 definition) to define Chronic Fatigue Syndrome (CFS) definition |
| | | lacks specificity. May the CDC not muddle the existing CFS definition picture by mmisguidedly adopting |
| | | the Reeves 2005 definition but instead prevail with an accurate CFS definition underpined by the |
| | | highest levels (worlds best practice) of the application of specificity with respect to CFS. One that is a |
| 1247 | Michelle Dev | blessing to CFS sufferers, not an obsticle. |
| 1247 | Michelle Roy
Laurel Bertrand | |
| 1249 | Brad Wiggins | This disease needs a clear definition. |
| 1250 | Wendy | |
| | Beveridge | |
| 1251 | sue jorgensen | |
| 1252 | Anonymous | |
| 1253 | Toni Brown | |
| 1254 | Anonymous | |
| 1255 | Anonymous | It is an interesting situation when a disease can be defined out of existence. The implications for the future of medicine are frightening. |
| | Cynthia | |
| 1256 | Bongarten, | |
| 4057 | Ph.D. | |
| 1257
1258 | Farrar Wilson | |
| 1258 | Lucy Fox | |
| 1260 | matthew stark Ruth EJ James | |
| 1261 | Anonymous | - |
| 1262 | Anonymous | This definition does not describe CFS/ME |
| 1263 | Stacie Phillips | The definition does not describe of B/HILI |
| | Anne C | |
| 1264 | Anderson | |
| 1265 | David Peterson | |
| 1266 | Anonymous | |
| 1267 | Anonymous | When is the CDC going to get it right? |
| 40 | Denise | |
| 1268 | | |
| 1268 | Trenaman | |
| 1269 | Trenaman
Anonymous | |
| | Trenaman | |

| 1272 | Anonymous | I hope that the results of this petition would be favorable |
|--|---|---|
| | - | Help these poor people who suffer so much. My 18 year old daughter has ME/CFS and it is ruining her |
| 1273 | | life. |
| 1274 | Steinberg | I have had chronic fatigue syndrome for more than twenty years. I also have overlapping chemical intolerances. |
| 1275 | sandy reyes | |
| 1276 | Guylaine
Ivester | |
| 1277 | Mary Barker | I believe the hallmark of CFS is post-exertional malaise (more accurately, acute exhaustion). Although some CFS symptoms overlap with other illnesses, NO OTHER ILLNESS has the feature of post-exertional malaise. This is severe exhaustion which starts to hit several hours or more after rather minimal exertion, and which lasts for several days. Since there are so many possible causes of fatigue, the definition of CFS has to be limited to those with post-exertional malaise for any meaningful research to be done on CFS. |
| 1278 | Helen | |
| 1279 | Barbara | |
| 1280 | Karl | This disease is a theif to ones livleyhood. Devastating pain, extreme suffering, relentless torture as if one has been poisened or took in something toxic. I ask does the CDC wish this on any Human? |
| 1281 | abot bensussen | |
| 1282 | Mark Pawson | Dr Reeves should not be allowed to continue trading in other peoples misery; misery which he himself has designed, produced, and sold. There are no words to describe the suffering he has caused. |
| 1283 | kathleen harper | |
| 1284 | Anonymous | We need more research!! |
| 1285 | Lori Orser | The definition of CFS/CFIDS should remain specific in order to focus research and potential treatments. The broader Reeves definition is so broad that many patients with other definable illnesses would fall into the CFS group. |
| 1286 | Anonymous | |
| 1287 | Joe Hayes | |
| 1288 | Anonymous | |
| 1289 | | For my buddy Gaston I agree with Mr. Kindlon. I have been diagnosed with Chronic Fatigue Syndrome (CFS) now for the past 2 years. I think I have had the disease for many years prior to the diagnoses but was miss |
| 1290 | Anonymous | diagnosed by many doctors that told me they couldn't find anything wrong with me. There needs to be a definitive test for this disabling disease and some kind of treatment that works for those of us that are in limbo suffering. |
| 1290 | Anonymous | a definitive test for this disabling disease and some kind of treatment that works for those of us that are |
| | Anonymous kathleen | a definitive test for this disabling disease and some kind of treatment that works for those of us that are in limbo suffering. Using the "empirical" definition will allow for a greater percentage of those with depression and other mood disorders to be misdiagnosed. It will hinder or possibly cease the research on ME/CFS that I had |
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1293 | Anonymous kathleen bowring Anonymous | a definitive test for this disabling disease and some kind of treatment that works for those of us that are in limbo suffering. Using the "empirical" definition will allow for a greater percentage of those with depression and other mood disorders to be misdiagnosed. It will hinder or possibly cease the research on ME/CFS that I had |
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1295 | Anonymous kathleen bowring Anonymous Anonymous Evelyn Johnson | a definitive test for this disabling disease and some kind of treatment that works for those of us that are in limbo suffering. Using the "empirical" definition will allow for a greater percentage of those with depression and other mood disorders to be misdiagnosed. It will hinder or possibly cease the research on ME/CFS that I had for past 18 years by allowing this definition as it lacks specificity. A blood test for CFS as mitochondrial failure has been developed and is described here: http://www.ijcem.com/files/IJCEM812001.pdf Definition of this illness should focus on etiology as well as accurate description of symptoms, including post-exertional malaise which is a key symptom. Funding should go to replication and distribution of this test and development of appropriate treatment. Why waste time and money on creating a new diagnostic criteria based on subjective data when a blood test is available? |
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1297 | Anonymous kathleen bowring Anonymous Anonymous Evelyn Johnson Anonymous Michael A Murphy Shana Dines | a definitive test for this disabling disease and some kind of treatment that works for those of us that are in limbo suffering. Using the "empirical" definition will allow for a greater percentage of those with depression and other mood disorders to be misdiagnosed. It will hinder or possibly cease the research on ME/CFS that I had for past 18 years by allowing this definition as it lacks specificity. A blood test for CFS as mitochondrial failure has been developed and is described here: http://www.ijcem.com/files/IJCEM812001.pdf Definition of this illness should focus on etiology as well as accurate description of symptoms, including post-exertional malaise which is a key symptom. Funding should go to replication and distribution of this test and development of appropriate treatment. Why waste time and money on creating a new diagnostic criteria based on subjective data when a blood test is available? As one who suffers with CFIDS/ Myalgic Encephalomyelitis I beleive that It is time that this Major illness be called exactly what it is. Myalgic Enephalomyelitis. This is a devastating illness that will not be cured by talking, but by serious medical diagnosis and treatment. Bullshit talks but Myalgic |
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1297 | Anonymous kathleen bowring Anonymous Anonymous Evelyn Johnson Anonymous Michael A Murphy Shana Dines Lisa Bower | a definitive test for this disabling disease and some kind of treatment that works for those of us that are in limbo suffering. Using the "empirical" definition will allow for a greater percentage of those with depression and other mood disorders to be misdiagnosed. It will hinder or possibly cease the research on ME/CFS that I had for past 18 years by allowing this definition as it lacks specificity. A blood test for CFS as mitochondrial failure has been developed and is described here: http://www.ijcem.com/files/IJCEM812001.pdf Definition of this illness should focus on etiology as well as accurate description of symptoms, including post-exertional malaise which is a key symptom. Funding should go to replication and distribution of this test and development of appropriate treatment. Why waste time and money on creating a new diagnostic criteria based on subjective data when a blood test is available? As one who suffers with CFIDS/ Myalgic Encephalomyelitis. This is a devastating illness that will not be cured by talking, but by serious medical diagnosis and treatment. Bullshit talks but Myalgic Encephalomyelitus cripples. Do the right thing and keep the name M.E. |
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1297 | Anonymous kathleen bowring Anonymous Anonymous Evelyn Johnson Anonymous Michael A Murphy Shana Dines | a definitive test for this disabling disease and some kind of treatment that works for those of us that are in limbo suffering. Using the "empirical" definition will allow for a greater percentage of those with depression and other mood disorders to be misdiagnosed. It will hinder or possibly cease the research on ME/CFS that I had for past 18 years by allowing this definition as it lacks specificity. A blood test for CFS as mitochondrial failure has been developed and is described here: http://www.ijcem.com/files/IJCEM812001.pdf Definition of this illness should focus on etiology as well as accurate description of symptoms, including post-exertional malaise which is a key symptom. Funding should go to replication and distribution of this test and development of appropriate treatment. Why waste time and money on creating a new diagnostic criteria based on subjective data when a blood test is available? As one who suffers with CFIDS/ Myalgic Encephalomyelitis I beleive that It is time that this Major illness be called exactly what it is. Myalgic Encephalomyelitis. This is a devastating illness that will not be cured by talking, but by serious medical diagnosis and treatment. Bullshit talks but Myalgic Encephalomyelitus cripples. Do the right thing and keep the name M.E. The empirical definition is unfit for its purpose and for the general aim of the CDC. |
| 1291
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1297 | Anonymous kathleen bowring Anonymous Anonymous Evelyn Johnson Anonymous Michael A Murphy Shana Dines Lisa Bower | a definitive test for this disabling disease and some kind of treatment that works for those of us that are in limbo suffering. Using the "empirical" definition will allow for a greater percentage of those with depression and other mood disorders to be misdiagnosed. It will hinder or possibly cease the research on ME/CFS that I had for past 18 years by allowing this definition as it lacks specificity. A blood test for CFS as mitochondrial failure has been developed and is described here: http://www.ijcem.com/files/IJCEM812001.pdf Definition of this illness should focus on etiology as well as accurate description of symptoms, including post-exertional malaise which is a key symptom. Funding should go to replication and distribution of this test and development of appropriate treatment. Why waste time and money on creating a new diagnostic criteria based on subjective data when a blood test is available? As one who suffers with CFIDS/ Myalgic Encephalomyelitis. This is a devastating illness that will not be cured by talking, but by serious medical diagnosis and treatment. Bullshit talks but Myalgic Encephalomyelitus cripples. Do the right thing and keep the name M.E. |

| | Jaslovsky | |
|------|---------------------------|--|
| 1303 | A Pinto | |
| 1304 | Catherine | |
| | Rowe | |
| 1305 | Anonymous | I hope that this will be of some help |
| 1306 | Kaat
Deruddere | |
| 1307 | Anonymous | This is a disease that covers all ages and genders and all over the world. There is nothing being done to find a cause or cure because too many medical practitioners think it is a mental defect. Give help to those who are suffering by |
| 1308 | J. Perez | supporting an ME/CFS orgainzation in your area or country today. |
| 1309 | Christina | |
| | Gleason | |
| 1310 | john jay cooke | |
| 1311 | Anonymous | |
| 1312 | jacqui
butterworth | Proper biomedicalresearch is needed, not exercises such as CAB and GET. |
| 1313 | Dewey Ewing | |
| 1314 | Patricia Carter | |
| 1315 | David
Woodcock | |
| 1316 | Andrea Pring | |
| 1317 | Gurli Bagnall | |
| 1318 | Anonymous | |
| 1319 | diane | |
| | lindeman | |
| 1320 | Vickie Taylor | This group of potionts are boing forced to live in the dayly area, while the rest of |
| 1321 | Victoria Storey | This group of patients are being forced to live in the dark ages, while the rest of the word lives in ignorance. There is nothing that the CDC offers in this definition that brings us any hope for treatments or a cure. It must be stopped now! and proper biological research begun. |
| 1322 | Anonymous | |
| 1323 | Christine Gow | |
| 1324 | jacqueline
christensen | |
| 1325 | marie moore | |
| 1326 | MaryAnn | |
| 1327 | dirk goffin | |
| 1328 | Anonymous | Lawrence China Citian Dalaman Management Lawrence Charles de California |
| 1329 | James Hackett | I support this petition. Being a sufferer myself, I agree that this definition is inaccurate. |
| 1330 | Alan Gurwitt,
M.D. | |
| 1331 | Catherine C
Larson | |
| 1332 | Anonymous | |
| 1333 | judy chapman | |
| 1334 | Suzanne | |
| 1335 | Delaney
Jamie Lalos | |
| 1336 | mike riley | |
| 1337 | Anna Biggs | |
| 1338 | Jamie Trafton | I pray they will cange the name CFS to ME as CFS is doing nothing to justify what we all are living with the symptoms we have and to get the right type of help. Please take this name CFS out of the picture. Thank you for your time:O) Jamie Trafton |
| 1339 | Hilary Murphy | |
| 1340 | Myron A.
Hoffman | I strongly believe that we need an updated definition of Chronic Fatigue Syndrome (CFS/ME). I am a professor of Mechanical Engineering and was forced to quit teaching almost 4 years ago when I came down with CFS. Please help us!! |

| 1341 | Rochelle Hall | |
|------|--------------------------|--|
| | Patricia | |
| 1342 | Prendergast | |
| 1343 | Linda Wright | |
| 1344 | Anonymous | |
| 1345 | M. Sugarman | Definition of the disease should include all its symptoms, not just tiredness. |
| | Wendy | |
| 1346 | Tubman | |
| 1347 | Linda Reed | I have suffered from this condition for nearly 10 years and finally had to quit working. Right now I do not qualify for disability due to the currently recognized definition. Believe me, fatigue is only a small part of the problem. For me, any depression is the result of not being able to carry on normal activity due to pain and the accompanying "brain fog". |
| 1348 | Kathy Rick | |
| 1349 | Jayne Roberts | |
| 1350 | Carolyn | |
| 1051 | Bradford | |
| 1351 | Anonymous | |
| 1352 | michelle turner | |
| 1353 | Frances | |
| 1354 | Corrow Christine Gardner | I know several people with CFS that led active, vibrant lives before this syndrome claimed them. I would ask the CDC not to use the Reeves criteria in their study which could dilute the actual pool of people with CFS thereby making the results meaningless. This research is needed now for this difficult and debilitating disorder. |
| 1355 | Sharon
Stapleton | Remove Reeves asap. HHS MUST monitor all actions of the CDC in regards to CFIDS. HHS must also fight for more funding for CFIDS generally. |
| 1356 | Dr. Richard | This is a true epidemic. The HHS, NIH, and CDC MUST get more funding for |
| 1357 | Kugler | CFIDS. |
| 1337 | | Reeves needs to be replaced now with someone with compassion for human |
| 1358 | Karl Baty | beings! |
| 1359 | Anonymous | I have CFS, its not fun and its NOT a psychological disorder. Give it the respect it deserves |
| 1360 | Arlene Stuart | I have now had CFS for 21 years, disabled for 10 years. It is important to correct the research definition of CFS to make sure it includes those of us who are severely ill and omits people diagnosed with depression. |
| 1361 | Anonymous | |
| 1362 | Ann U Smith | CFS/EBV for 20 years - continual recurring episodes despite following a strong nutritional program for 19 years |
| 1363 | Anonymous | |
| 1364 | Anonymous | Having my late daughter suffer endless mistreatment due to mis-attribution of her CFS illness, this is an importasnt issue to resolve |
| 1365 | Anonymous | |
| 1366 | Denise | |
| 1300 | Benson | |
| 1367 | Anonymous | It is important to find the cause and cure of this disease. I have had it for over 20yrs and I am coming close to the end of my "useful" life. I regret all that I have missed and wish this not to happen to future generations. |
| 1368 | Anna Murphy | I have had fibromyalgia for 15 years and I know well the pain of post-exertional maoaise. There is a fear that FMS is going to be renamed CFIDS so anything that affects CFS, I am going to be watchful for. |
| 1369 | Karen Sterling | |
| 1370 | J. Vivanco | |
| | | Whilst I think is great that some research is being done into ME, I think it will be |
| 1371 | Anonymous | completely wasted time, energy and money, if you base it on the empirical definition. People will continue to suffer and even die, unless drs start being more specific. |
| 1372 | Ariel Lansberg | Most so-called research & treatment of this horrible scourge is to datenothing |

| | | agenda to further marginalize & destroy human lives which their collective |
|--|---|---|
| | | believe to be too burdensome & expensive. Actions by members of this |
| | | collective serve only to promote their own very special form of social Darwinism. While power brokers of this ilk are at the helmnothing will occur |
| | | but yet more obfuscation & strangulation of true knowledge regarding the |
| | | nature of this devastating illness & how best to treat it. |
| 1373 | Alexandra | |
| 1374 | Gail Laraia | |
| | | The 2003 Canadian Case Definition is the only true clinical definition that should be used and we need further research on all of the subsets of of pathogenically caused ME (enteroviral, herpes related, etc.) and "Chronic Fatigue Syndrome" (organophosphate poisonings, rickettsial/Lyme related |
| 1375 | Keir Farnum | illness, bacterial toxicities [whether produced by pathogens in vitro or accumulated from the environment] such as ciguatera or estuary related syndrome.) These are serious illnesses and should have more funding than AIDS, MS, etc. since they cause more mortality and morbidity than all of these other illnesses combined. A definition of illness based on the lack of findings (such as the case with "Somatoform Disorder) is not a true definition and is not valid (in the case of somatoform disorder, I believe that it should be PROVED that there are no physical correlates rather than the other way around.) Have these folks never heard of epistemology? |
| 1376 | Anonymous | |
| 1377 | G Cowley | |
| 1378 | Natasha Vidan | |
| 1379 | Jason
Johnston | |
| 1380 | marie moore | |
| 1381 | Anonymous | |
| 1382 | Angela | |
| 1383 | Anonymous | |
| 1384 | luke | |
| 1385 | White Deer
Williamson | I have a very dear friend who has this and because of her, that is why I am adding my signature. This is very improtant document and others need to be made aware of this. So those you have this can and will be able to recieve the help they so much need. |
| 1386 | Honey
McKinley | This redefinition is ridiculous and is likely to hinder any chance of getting proper treatments (rather than useless/dangerous CBT and GET) of this illness. |
| 1387 | Anthony
Simmons | |
| 1388 | Anonymous | Please address this issue, it is paramount that research and treatment are congruant with the pathology of the illness and best practices world wide. |
| 1389 | Martha Evins | g, |
| | | |
| | Owen Beith | Focused research is essential to achieving progress in determining the factors causing or contributing to Chronic Fatigue Syndrome / M.E. Any loss of focus is counterproductive and a retrograde step. |
| 1391 | glenna padley | causing or contributing to Chronic Fatigue Syndrome / M.E. Any loss of focus is |
| 1391
1392 | glenna padley
Anonymous | causing or contributing to Chronic Fatigue Syndrome / M.E. Any loss of focus is counterproductive and a retrograde step. |
| 1390
1391
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1393 | glenna padley
Anonymous
Joe Krug | causing or contributing to Chronic Fatigue Syndrome / M.E. Any loss of focus is counterproductive and a retrograde step. Nothing is worse than mis-diagnosis based on bad wording. Please fix. |
| 1391
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1394 | glenna padley
Anonymous | causing or contributing to Chronic Fatigue Syndrome / M.E. Any loss of focus is counterproductive and a retrograde step. |
| 1391
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1395 | glenna padley Anonymous Joe Krug adesterke Anonymous Pat Askert | causing or contributing to Chronic Fatigue Syndrome / M.E. Any loss of focus is counterproductive and a retrograde step. Nothing is worse than mis-diagnosis based on bad wording. Please fix. ik wil dat alles eens goed nagekeken word Stop using the Empirical Definition and replace it with the Canadian Consensus Definition. Stop psychologizing the illness. |
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1396 | glenna padley Anonymous Joe Krug adesterke Anonymous Pat Askert Joseph | causing or contributing to Chronic Fatigue Syndrome / M.E. Any loss of focus is counterproductive and a retrograde step. Nothing is worse than mis-diagnosis based on bad wording. Please fix. ik wil dat alles eens goed nagekeken word Stop using the Empirical Definition and replace it with the Canadian Consensus Definition. Stop psychologizing the illness. Something must be done immediately to help people with Chronic Fatigue. This |
| 1391
1392 | glenna padley Anonymous Joe Krug adesterke Anonymous Pat Askert Joseph Shelton Jasmine | causing or contributing to Chronic Fatigue Syndrome / M.E. Any loss of focus is counterproductive and a retrograde step. Nothing is worse than mis-diagnosis based on bad wording. Please fix. ik wil dat alles eens goed nagekeken word Stop using the Empirical Definition and replace it with the Canadian Consensus Definition. Stop psychologizing the illness. |
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1397 | glenna padley Anonymous Joe Krug adesterke Anonymous Pat Askert Joseph Shelton Jasmine Walton Marly | causing or contributing to Chronic Fatigue Syndrome / M.E. Any loss of focus is counterproductive and a retrograde step. Nothing is worse than mis-diagnosis based on bad wording. Please fix. ik wil dat alles eens goed nagekeken word Stop using the Empirical Definition and replace it with the Canadian Consensus Definition. Stop psychologizing the illness. Something must be done immediately to help people with Chronic Fatigue. This is a disabling disease. |
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1397 | glenna padley Anonymous Joe Krug adesterke Anonymous Pat Askert Joseph Shelton Jasmine Walton Marly Silverman | causing or contributing to Chronic Fatigue Syndrome / M.E. Any loss of focus is counterproductive and a retrograde step. Nothing is worse than mis-diagnosis based on bad wording. Please fix. ik wil dat alles eens goed nagekeken word Stop using the Empirical Definition and replace it with the Canadian Consensus Definition. Stop psychologizing the illness. Something must be done immediately to help people with Chronic Fatigue. This |
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1398 | glenna padley Anonymous Joe Krug adesterke Anonymous Pat Askert Joseph Shelton Jasmine Walton Marly | causing or contributing to Chronic Fatigue Syndrome / M.E. Any loss of focus is counterproductive and a retrograde step. Nothing is worse than mis-diagnosis based on bad wording. Please fix. ik wil dat alles eens goed nagekeken word Stop using the Empirical Definition and replace it with the Canadian Consensus Definition. Stop psychologizing the illness. Something must be done immediately to help people with Chronic Fatigue. This is a disabling disease. |

| | York | |
|------|-----------------------|--|
| 1403 | Gorzolla | |
| 1404 | Greg Field | The CDC is clearly muddying the waters to cover over its incompetence and avoid being brought to justice. Meanwhile patients around the world go on having ruined lives. Stop listening to your lawyers and for Gods sake, do the right thing, not just with the definition, but pushing research into a physiological causes and cure. Dont you know your names will be linked to the greatest medical scandal of modern time, unless you (the CDC) do the right thing now! |
| 1405 | maureen
gunn | |
| 1406 | Anonymous | |
| 1407 | Jacqueline
Vivanco | HHS said they would essentially remove and replace Reeves with someone else. HHS MUST do as they said they would do and soon. Everyone should email the HHS Commissioner and insist that he be removed from any CFIDS research. |
| 1408 | Ruth Darling | |
| 1409 | Maureen
Mooney | |
| 1410 | Carole
Hannon | |
| 1411 | Pamela G.
Edelson | |
| 1412 | Anonymous | ME/CFS since 2000 |
| 1413 | Clare | |
| 1414 | Anonymous | Please do not use the flawed Reeves definition of CFS. (CFS/ME). The definition does not separate out those that truly have CFS/ME. The new definition is meaningless and will dilute further meaningful research into this seriously disabling illness. It is already highly unlikely that much meaningful research will be done in my lifetime. The Reeves definition will only make things worse. It is unconscionable that the CDC has done so little to help those who suffer from this very disabling illness. |
| 1415 | Virginia
Tierney | |
| 1416 | Michael
Murphy | |
| 1417 | Lynne
Andrews | |
| 1418 | Anonymous | |
| 1419 | Natalie
Dunks | My Sister Laura Dunks and one of my friends has M.E and it has to be recognised not ignored. |
| 1420 | fietje | |
| 1421 | Sara Burton | |
| 1422 | Veronica
Souza | |
| 1423 | Anonymous | |
| 1424 | kATIE G | |

| 1425 | Sharon
Babbitt | We need research to continue. |
|------|--------------------------|---|
| 1426 | Sister
Sandra
Duma | I have no confidence in research being done by the CDC using the empirical definition. This group is too insular and needs to open up to other highly qualified ME/CFS researchers that are making greater progress with less money than that of the CDC. Too many of us have been too greatly ill for too long. It is time for a change in direction at the CDC. |
| 1427 | Sara
McGroarty | |
| 1428 | Arlene Rubb | |
| 1429 | Teia Hassey | Depression and CFS have a major difference. I have chronic fatigue from Fibromyalgia, but I am NOT depressed. I wish to do things, but feel overwhelmingly "fatigued" that I can not. And when I do involve in ANY activity, it takes three days for me to recover. This is CFS and FMS. Not depression. Otherwise why am I using the energy I do not have to type this?? Thank you |
| 1430 | Judy | CFS is not to be trivialized |
| 1431 | Anonymous | |
| 1432 | Ross
Voorhees | I support this petition. |
| 1433 | susan best | The definition of cfs for myalgic encephalitis is ridiculous |
| 1434 | Anonymous | I hope the CDC will change their research plan for CFS. My sister has had CFS for a number of years. I hope a cure is in the near future. |
| 1435 | joy birdsey | Over the last 20 years the UK and the USA have failed in their duty of care for ME/CFS towards children and adults, by taking on board the UK NICE guidlines. All govenments have ignored the good robust scientific data of ME/CFS being a neurological disease. To offer CBT and GET to this patient group is an insult and an abuse of their human rights. Sick children abd parents have been stigmatized with mental health labels, when this is purely not the case, as these children are extreamly ill. The adult population with ME/CFS are also being stigmatized with having mental health probs, Is this the way a govenment contols the medical profession to continue. How much loger will the UK and the USA continue with this charade. Joy birdsey |
| 1436 | Anonymous | |
| 1437 | Jill Peters | |
| 1438 | Darlene Blair | I have friends who have suffered from this devasting and life threatening condition for years and need to have support from the medical professionals around the world to bring about a centralized and consistant definition and treatment. |
| 1439 | Debra | |
| 1440 | Debbie
Anderson | The Chronic Fatigue Syndrome involved so much more than fatigue. Changing the name is a must so that sufferers will taken seriously. |

====== Appendix 2: Submission made at the end of April, 2008 ==========

I spoke twice over the phone at the meeting on Monday and was asked to put what I said in writing as the note-takers had some difficulty hearing everything I said.

Unfortunately, I did not use a script so what I am sending is not verbatim. The second part is probably pretty close to what I said as had a page full of header notes. I wrote both up soon after the meeting so even the first one is likely not to be that different from what I said.

(If the note takers have anything that does not come up below, feel free to contact me if you are sufficiently interested).

Although this E-mail may look very long, the two main contributions are not really that long (1594 words between the two of them).

I am sending this also an attachment in case the format goes awry with this E-mail.

Thanking you,

Tom Kindlon (tomkindlon@oceanfree.net tomkindlon@gmail.com)

| =====1st | Contribution======= | |
|----------|---------------------|--|
|----------|---------------------|--|

I should first apologise and say that I didn't think I was going to be speaking today so I don't have anything prepared.

I have been ill for 20 years since the age of 16. I got 1460 in my SATs, top

percentile in both of the subjects so had a promising future ahead of me, but I have now been housebound for over a decade.

I have read the CDC's research plan and am concerned that Graded Exercise Therapy and CBT based on Graded Exercise Therapy are going to be recommended. I am concerned that the CDC has been taken in by the hype of these treatments. Lots of people have been made worse by these treatments. Unfortunately, because they are not drugs, there is no easy way for patients or doctors to report adverse reactions the way there is with drug treatments. So no one is recording that many people are being made worse by these treatments. About the only place this shows up is in patient surveys: patient survey after patient survey shows a high percentage of people have been made worse by Graded Exercise Therapy and CBT based on Graded Exercise Therapy.

The draft plan uses the word "evidence based" three times. I think it is premature to use this term. There have only been a relatively small number of Randomised Controlled Trials and Controlled trials in the area. I fear what it means is that the CDC is going to be supporting and recommending GET and CBT based on GET.

The draft plan refers to arriving at an "international consensus on management". But again, I think it is premature to be talking about an "international consensus". There are lots of views. I fear that what the CDC is referring to is GET and CBT based on GET especially after the publication of the NICE Guidelines.

I am concerned by the phrase "prevention of CFS". This phrase isn't used much. One prominent person believes that one can prevent CFS by getting people moving and exercise soon after an infection. Many other people would think this is dangerous and what people actually need to do is rest. I am concerned that what the CDC is referring to is getting people to exercise after an infection which could be risky.

When the CDC refers "intervention studies" I fear what the CDC is referring to is GET and CBT and GET. In other countries, these strategies have gobbled up a lot of the governmental money. Another study just gives these treatments an unfair advantage - other treatments have barely been tested at all.

The whole idea of GET and CBT based on GET is to get people to do more. But where is the evidence that it actually achieves this? There is none. There is no actometer data. All they have is questionnaire data which could be due to factors such as placebo or time spent with a therapist. It isn't solid

evidence. Indeed one CBT study by Friedberg[1] this year reported that people

improved on the SF-36 physical functioning scale and on a fatigue scale but actually were doing less as measured by actometer data. This intervention involved encouraging patients to go out walking. And yet at the end people weren't walking more. So there's a lot of hype about GET and CBT based on GET but the evidence isn't there.

I think the empirical definition is flawed. It selects 2.54% of the population or 1 in 40 of the population[2]. I don't think they all have what is

commonly understood to be CFS. Who knows what some of the people have. A study found that 38% of those who had major depression but didn't have CFS satisfied the empirical definition[3]. This defintion messes everything up.

The thresholds for the empirical definition such as the 25th percentile for the SF-36 subscalesweren't picked statistically, they were picked out of the air[4]. There is no particular reason why that should be the threshold. The role emotional subscale isn't a suitable way to pick way to find people who are functionally impaired on its own - Leonard Jason and lots of others also don't think it is suitable[5,6]. It shouldn't be used to decide that people are functionally impaired (and hence satisfy the impairment criteria in the Fukuda definition).

At this time, when we don't know who might be harmed by GET and CBT based on GET, I think it is dangerous to be recommending them.

| Thank you. | |
|-------------|--|
| | |
| References: | |

- [1] Friedberg F, Sohl S. Cognitive-behavior therapy in chronic fatigue syndrome: is improvement related to increased physical activity? J Clin Psychol. 2009 Apr;65(4):423-42.
- [2] Reeves WC, Jones JF, Maloney E, Heim C, Hoaglin DC, Boneva RS, Morrissey M, Devlin R. Prevalence of chronic fatigue syndrome in metropolitan, urban, and rural Georgia. Popul Health Metr. 2007 Jun 8;5:5.
- [3] Jason, L.A., Najar, N., Porter, N., Reh, C. Evaluating the Centers for Disease Control's empirical chronic fatigue syndrome case definition. Journal of Disability Policy Studies 2008, doi:10.1177/1044207308325995.
- [4] Reeves WC, Wagner D, Nisenbaum R, Jones JF, Gurbaxani B, Solomon L, Papanicolaou DA, Unger ER, Vernon SD, Heim C. Chronic fatigue syndrome--a clinically empirical approach to its definition and study. BMC Med. 2005 Dec 15:3:19.
- [5] Jason L, Richman J. How science can stigmatize: the case of chronic fatigue syndrome. Journal of Chronic Fatigue Syndrome. 2007;14(4):85-103.
- [6] White PD. Reviewer comments on: Reeves WC, Jones JF, Maloney E, Heim C, Hoaglin DC, Boneva RS, Morrissey M, Devlin R. Prevalence of chronic fatigue syndrome in metropolitan, urban, and rural Georgia. Popul Health Metr. 2007 Jun 8:5:5.

Available at:

http://www.biomedcentral.com/imedia/1083914155124266_comment.pdf (and http://tinyurl.com/dakhlz)

======Second contribution on the phone=======

I just thought I'd add something as my first piece wasn't pre-planned and I left some information out.

- The draft plan refers to "international consensus on management", "intervention studies" and "evidence based .. management of CFS". I fear that these will not include strategies such as pacing and the "envelope theory".

Leonard Jason in 2007 published a study, "non-pharmaceutical interventions for CFS"[1], from money from an NIH Grant. It found that pacing came out better than CBT, an exercise program and a relaxation intervention.

There is also some evidence that a similar strategy, the "envelope theory", is useful.

These strategies have excellent safety records.

These strategies involve listening to your body. This is very different from the rationale of Graded Exercise Therapy and CBT based on Graded Exercise Therapy.

So I am not sure how there can be any consensus at this time. It is premature to have consensus at this time. However I fear what is being talked about is to recommend Graded Exercise Therapy and CBT based on Graded Exercise Therapy.

- There is a lot of hype about GET and CBT based on GET. I fear that the CDC may have been taken in by this hype. Often the words "evidence based" and "effective" for example are used with regard to these treatments. However, reviews of the treatments do not show them to be that effective.

Malouff in 2008 published a meta-analysis of cognitive behavioural therapy Trials[2] (this included some studies on Graded Exercise Therapy). They calculated a Cohen's d effect size to be an average of 0.48 for the outcome measures. For those who don't know, an effect size is a measure of how effective a treatment is - some treatments can help a little, some

treatments can help a lot. 0.48 is below the threshold for a treatment to be seen as having a moderate effect size.

So the hype of cognitive behavioural therapeutic interventions isn't justified.

A Cochrane Review of CBT studies[3] found that at the end of treatment, 40% of people in the CBT group showed clinical improvement in contrst to only 26%

in the control group (usual care) but at follow-up, 1-7 months after the treatment end, when drop-outs were included, there was no difference.

In Belgium[4], they set up five rehabilitation clinics that used GET and CBT. If you look at the questionnaire data, yes, it looks like the patients were

helped like with other published literature.

However, on the exercise studies, there was no difference. And on the hours worked, patients were actually working less hours than before they did the CBT and GET.

So as I say, many questions remain about GET and CBT based on GET.

- With regard to the empirical definition, I forgot to say in my first submission that I set up a petition on the issue on the 15th of April. Already 250* people have signed it. It calls for the CDC to stop using the empirical definition, also called the Reeves definition, for its research. It's on ipetitions.com [5] if people go there they can see the many points people have made on the issue [I am copying it below. I did not get a chance to say that other people also added comments but for some reason they did not show up]
- I forgot to say that I have a personal reason that I am so concerned about exercise programs. My own health was ruined by an exercise program. Before I did the exercise program I was only mildly affected but now I have been housebound for over a decade.
- A final point is to say that there are many problems with the philosophy surrounding GET and CBT based on GET. Many of the proponents say patients with CFS shouldn't be entitled to disability benefits. They also say that people shouldn't get home help as this can get in the way of the rehabilitation. Also that family and relatives should not be helpful for the

same reason. They can also recommend against people getting disability aids and parking badges.

And this is for an illness where at the very least we don't know what is causing it. But there is plenty of evidence to suggest it's "physical". As one person said to me once, the attitude (of those promoting the CBT/GET model) is medieval.

*Addendum: This has increased by nearly 100 to 347 in the 3 or so days since the meeting. I am appending the list below (Appendix 1). A lot of people told me that they put comments but for some reason the comments did not show. I intend leaving the petition up for the moment. It shows up (or articles talking about it) on various searches which use search words such as: cfs OR "chronic fatigue syndrome" reeves cdc OR "Centers for Disease Control and Prevention" etc.

Appendix 2: I am enclosing some comments I have made that have been accepted and have been placed beside articles that use the empirical/Reeves definition. Some of the team of course may be aware of them.

References:

- [1] Jason LA, Torres-Harding S, Friedberg F, Corradi K, Njoku MG, Donalek J, et al.Non-pharmacologic interventions for CFS: A randomized trial. Journal of Clinical Psychology inMedical Settings 2007; 14:275-96.
- [2] Malouff JM, Thorsteinsson EB, Rooke SE, Bhullar N, Schutte NS. Efficacy of cognitive behavioral therapy for chronic fatigue syndrome: a meta-analysis. Clin Psychol Rev. 2008 Jun;28(5):736-45.
- [3] Price JR, Mitchell E, Tidy E, Hunot V. Cognitive behaviour therapy for chronic fatigue syndrome in adults. Cochrane Database Syst Rev. 2008 Jul 16;(3):CD001027.
- [4] Rapport d'evaluation (2002-2004) portant sur l'execution des conventions de re-education entre le Comite de l'assurance soins de sante (INAMI) et les Centres de reference pour le Syndrome de fatigue chronique (SFC). 2006. http://tinyurl.com/d48t7u i.e.

 $\frac{http://www.inami.fgov.be/care/FR/revalidatie/general-information/studies/studies/study-sfc-cvs/index.htm$

[5] "CDC CFS research should not involve the empirical definition (2005)" http://www.ipetitions.com/petition/empirical defin and CFS research/

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http://www.ipetitions.com/petition/empirical defn and CFS research/index.html

## CDC CFS research should not involve the empirical definition (2005)

### The petition

We call on the Centers for Disease Control and Prevention (CDC) to stop using the "empirical" definition[1] (also known as the Reeves 2005 definition) to define Chronic Fatigue Syndrome (CFS) patients in CFS research.

The CDC claim it is simply a way of operationalizing the Fukuda (1994) definition[2]. However the prevalence rates suggest otherwise: the "empirical" definition gives a prevalence rate of 2.54% of the adult population[3] compared to 0.235% (95% confidence interval, 0.142%-0.327%) and 0.422% (95% confidence interval, 0.29%-0.56%) when the Fukuda definition was used in previous population studies in the US[4,5].

The definition lacks specificity. For example, one research study[6] found that 38% of those with a diagnosis of a Major Depressive Disorder were misclassified as having CFS using the empirical/Reeves definition.

#### References

- [1] Reeves WC, Wagner D, Nisenbaum R, Jones JF, Gurbaxani B, Solomon L, Papanicolaou DA, Unger ER, Vernon SD, Heim C. Chronic fatigue syndrome--a clinically empirical approach to its definition and study. BMC Med. 2005 Dec 15;3:19. Link: <a href="http://www.biomedcentral.com/1...">http://www.biomedcentral.com/1...</a>
- [2] Fukuda K, Straus SE, Hickie I, Sharpe MC, Dobbins JG, Komaroff A. The chronic fatigue syndrome; a comprehensive approach to its definition and study. Ann Int Med 1994, 121:953-959.
- [3] Reeves WC, Jones JF, Maloney E, Heim C, Hoaglin DC, Boneva RS, Morrissey M, Devlin R. Prevalence of chronic fatigue syndrome in metropolitan, urban, and rural Georgia. Popul Health Metr. 2007 Jun 8:5:5.
- [4] Reyes M, Nisenbaum R, Hoaglin DC, Unger ER, Emmons C, Randall B, Stewart JA, Abbey S, Jones JF, Gantz N, Minden S, Reeves WC: Prevalence and incidence of chronic fatigue syndrome in Wichita, Kansas. Arch Int Med 2003, 163:1530-1536.
- [5] Jason LA, Richman JA, Rademaker AW, Jordan KM, Plioplys AV, Taylor RR, McCready W, Huang CF, Plioplys S. A community-based study of chronic fatigue syndrome. Arch Intern Med. 1999 Oct 11;159(18):2129-37.

[6] Jason, LA, Najar N, Porter N, Reh C. Evaluating the Centers for Disease Control's empirical chronic fatigue syndrome case definition. Journal of Disability Policy Studies 2008, doi:10.1177/1044207308325995.

Further reading:
Problems with the New CDC CFS Prevalence Estimates
Leonard Jason, Ph.D., DePaul University
tinyurl.com/2qdgu4 i.e.
http://www.iacfsme.org/Issuesw...

Brief comment from Tom Kindlon: I have Chronic Fatigue Syndrome (CFS) for over 20 years.

I want a lot of research progress in my lifetime and believe the empirical definition (2005) (also known as the Reeves definition (2005)) decreases the chances that this will occur: abnormalities that would show up using a more strictly defined definition won't show up using the empirical/Reeves definition; and abnormalities that might show up in the broad group covered by the empirical/Reeves definition are not necessarily representative of CFS patients.

Similarly treatments that might work on a more strictly defined group of patients might not show up using the very broad empirical/Reeves definition and treatments that might appear to work overall on the group defined using the empirical/Reeves definition might not be suitable for people who satisfy a stricter definition. This messes up the CFS literature even further.

Technical note: I am not sure why some people have grey boxes in the comments section. Some people have told me they have sent comments that never went up. I have not idea why this is happening.

## **Petition sponsor**

Tom Kindlon, a patient with Chronic Fatigue Syndrome (CFS) for over 20 years. I have done a lot of voluntary work in the area for over a decade. Recently I had two letters on CFS published in medical journals.

#### Links

The paper defining the empirical/Reeves definition can be read at: http://www.biomedcentral.com/1741-7015/3/19

Some comments on the paper have been posted at: http://www.biomedcentral.com/1741-7015/3/19/comments

An article by Leonard Jason PhD on the issue can be read at: tinyurl.com/2qdqu4 i.e.

 $\underline{\text{http://www.iacfsme.org/IssueswithCDCEmpiricalCaseDefinitionandPrev/tabid/105/Default.asp}}\underline{x}$ 

## http://me-cfs.se/dok/081205-cfs-no-longer-cfs.pdf

By Kasper Ezelius M.Sc. This includes some links to other definitions, Kasper's take on the issues and a list of some papers that have involved using the empirical definition (this list is not up-to-date; virtually all the papers

from the CDC 2-day Wichita study and also from the Georgia cohort have used the empirical definition to define CFS)

## http://www.ipetitions.com/petition/empirical\_defn\_and\_CFS\_research/signatures-1.html

#	Name	Comments
1 2	jill cooper Keith Riley	
3	Peter Ruberry	Definitions are now so broad as to include almost anyone feeling a bit off colour. WE should get back to the Melvin Ramsay definition of ME
5	Anonymous Ellen Goudsmit	
6 7	Jenny Wilson Irene Thorpe	20 years of being messed around. I would like some answers and treatment now . The
,	nene morpe	faster the better thank you The most precise definition of ME is the "Canadian Definition", which precludes
8	Laurence Swift	many non-ME diagnoses. The present broad definition incoporates too many general cases of non-ME states to make any research valid. These non-ME cases should be called "CFS" and true ME listed separately.
9	Michele E Townsend	This is very important to those of us that carry this diagnosis.
10	Jones	It is time to get rid of the woolly definition that includes too broad a group of patients thus muddying research results
11	Anonymous	The 2005 definition flies in the face of calls for subgrouping CFS patients to account
12	Linda Wish	for possibly different etiologies and pathologies. Instead, the original CFS/ME has been dissipated in a wide far-ranging heterogeneous group with vague symptoms ignoring the specific post-exertional problems patients have and the neurological problems that need research and treatment
	Anonymous Dr John	
14	Greensmith	
15	Rosie Cox	I have had this illness since 1970. I too want movement in research into this illness which will not happen until reserach uses cohorts based on appropriate definitons of which the CDC Reeves 2005 is not one. I would prefer the use of the Canadian Consensus Document, or more pertinently the Ramsay selection criteria which have much greater specificity for ICD10 ME.
16	Annette Barclay	
17	Perry	
10	Townsend Gail R. Kansky	
	Elizoboth	
19	McPhillips	
21	Penny Green C Johnston Marcus	

Doolette 23 Anonymous 24 Sarah Owens Very good intitiative! My documents on the subject: Use the Canadian criteria 2003 for CFS in the USA. http://me-cfs.se/dok/080622-Use-Canada-criteria-in-USA.pdf Resolution in order to make cohorts less heterogeneous. http://me-cfs.se/dok/080901-Kasper **Ezelius** mod-cfs.pdf How to categorize ME and CFS. http://me-cfs.se/dok/081023categorize.pdf CFS is no longer CFS, and it was never ME. http://mecfs.se/dok/081205-cfs-no-longer-cfs.pdf 26 27 Rob Arnoldus 28 Alfhild Renbro Rita Eckerman 30 Trond Aure Go Tom Kindlon! many of us have fought the 1988 holmes lousy definition, the worse Fukuda 1994 "definition" and the overly broad reeves "chronic illness melange" 31 Anonymous as Kasper called it. us oldtimers are burned out, we need new blood to fight this terrible fight! TMH TMH 32 Hillary L. Culver 33 Anonymous **34** Anonymous 35 Anita Patton 36 Ciaran Farrell 37 Karen M. On behalf of 225 members of CFS Facts support group Campbell 38 Catherine C Larson 39 Anonymous Even though research on our disease is miserably underfunded, gene expression and 40 Elsie A. other specific scientific research shows that CFS probably contains subcategories and **Owings** needs to be studied in more, rather than less, specificity. Throwing the disease into a waste bin full of other fatiguing illnesses does nothing to further our research. 41 Karen Algerio 42 Liz Willow 43 christine Gow The research following publication of the empiric defintion shows a need for this 44 Sarah LaBelle change. 45 Anonymous Thanks Tom! Much needed petition. The Wisconsin ME/CFS Association board has discussed CDC research, and examined specific studies including subsequent publications using Wichita and Atlanta methodology to identify CFS patients. We conclude that the study of fatiguing illnesses in people across cultures is an important epidemiological endeavor.

However, to call this CFS research and to fund it under that mechanism is wrong. We

contributions from international Myalgic Encephalomyelitis and CFS researchers is

believe that ultimately the pathophysiology of a specific disease entity will be revealed by investigators interested in specificity. Inclusion of challenging

46 patricia Fero

paramount in this process.

	Joan	
47	Grobstein,	
	M.D.	
48	Frank Twisk	
49	P. Simpson	
50	Lolly	
	McDeffilott	
#		Comments
	Lillie Smith	
<b>52</b>		
53	Benjamin Di Pasquale	
54	Constance Van der Eb, Ph.D.	
55		CDC is trying to hold up progress on the real disease by widening the criteria to include many who do not have the disease.
56	Mary Schweitzer,	
57	Ph.D. K McCall	
<b>5</b> 0	Gerald R.	
<b>58</b>	Campbell, Ph.D.	
	Peter Cummins	
<b>60</b>	Alice Browne	
61	Tammie Page	The Canadian definition would be a much more suitable definition, in my opinion and that of many, many others, as well.
62	Kathy D. Patti	As far as I am concerned, use of the Reeves "definition" has resulted in the CDC studying "chronic fatigue" of any etiology rather than doing hard investigation into the unique array of symptoms dubbed erroneously, in my opinion "Chronic Fatigue Syndrome." All your past research is useless because of its wide-open definition. If you want to contribute to medical science, use the Fukada definition.
63	Casey Pfluger	I strongly believe that the empirical definition 2005 has hindered the progress in research and treatment of this globally important disease. If the CDC is truly committed to being a world-leader in CFS research then their CFS definition needs to be updated to encompass new developments and discoveries since 2005.
64 65	Joanne Shiller Tony Foran	I do not endorse the use of the Reeves (2005)empirical definition on CFS.
66	Tanya Selth	
<b>67</b>	Thea Funk	I live in the Netherlands and have ME/CFS for nearly 20 years. As the USA, by my knowledge, always had a leading role concerning research, I really am stunned
		about the recent developments in ME/CFS research in your country.
<b>68</b>	Anonymous	
69	Alexa McLaughlin	We need reliable consistent research.
70	Simon Lawrence	The sooner that all those severly affected by this terrible get help, the better. It must NOT be confused with feeling tired, which affects everyone from time to time.

71 connie nelson 72 Jacqui Footman **73** Anonymous Jane Giakoumakis 75 harry burg **76** Alfhild Renbro 77 Hayley Klinger 78 Fiona Hodgkiss CFS implies a vague diagnosis or a mild diagnosis of little consequence. **79** Carol O. Olsen **80** Anonymous **81** Anonymous 82 C. Krusen Heller **83** Nicole Roesner **84** Louise Sheldo K.B.M. Schellekens Millions of dollars in federal and other funding is being wasted generating totallly meaningless data the "results" of which delay not advance science in this essentail Dr. Julie 86 Donalek area of research. Julie G. Donalek, R.N., Ph.D., DePaul University Department of Nursing 87 sarah kepert 88 Rik Carlson **89** Ian McLachlan 90 Kathy Davis Unn-Elin 91 Andreassen i fully agree with the intentions of this petition. the empirical definition of cfs/me 92 jeremy bearman is a step in the wrong direction and is not in the best interests of patients I am from French Canada (Québec). Thank you for all the work you are doing. Because in here, it is rather hopeless (no research, a very weak association). I am Mona-Josée 93 Gagnon the mother of a 32-years old woman with ME, and those quarrels about definitions are terribly harmful and "hope destructive". We need to develop acuity not undermine it. **94** Ewan Dale 95 Anonymous 96 Deborah Waroff 97 Anonymous **98** Anonymous 99 Anonymous Lawrence An investigation of chronic fatigue, while expensive, is essential to look for any Plumlee, M.D. treatable causes. **101** Anonymous 102 Dianne Bowman 103 Cort Johnson Fatigue is a symptom of ALL diseases and should not be used as a definition of ONE illness. The medical establishment has dismissed many 104 Anonymous ill people and thus many have gone without appropriate diagnosis and treatment; treatment that could have helped in the early stages. 105 Andy Grum

**106** Evelien van den Brink I gladly support your petition! The Netherlands 107 Willeke van der Vlist 108 C.Walker 109 Angela Kennedy 110 Suzy Chapman 111 Catherine Broughton Specificity is critically needed in the definition of ME/CFS. Using a non-**112** F. Wong specific definition of the illness further muddies the ME/CFS waters. 113 lorraine Murray **114** genevieve gagnon 115 Diana Saba 116 Sandy Cooley 117 Kathleen Flaherty, J.D. 118 Annabel Luery 119 Dave Murry Use the Canadian Criteria!! **120** Craig Maupin 121 Susan Wenger 122 Tim Gardner 123 Kerrie McCure 124 John Mitchell jr 125 Edelgard Gerstmann 126 Jess MacDonals **127** Anonymous 128 Peter Kemp 129 Carol Wong Please do not water down the thinking and the research about this devastating illness. There is little enough funding and support: lumping various illnesses and symptoms together and broadening the definition 130 Karen Riem beyond useful meaning hinders research, insults those of us who are sick, and ensures that even if we learn something, we may not be able to know or effectively use what we know. The empirical definition is a step backwards, defining subgroups as per the genetic studies is the smartest way forward so that you are comparing 131 Ashley Hinds apples with apples rather than with oranges, pears & carrots as this appallingly vague definition allows. 132 A Walsh It disgusts me that in one of the most advanced nations in the world, CFS

**133** Anonymous

is merely a battle of personal agendas by those in government agencies who should instead be attempting to heal their citizens. Forget the politics and personal ambition and find a cure. I have had CFS for over 20 yrs, most of my adult life, and would like to have a good quality of life for the remaining years i have. That can only happen if a cure or at least effective treatment for CFS is found. That will never happen if the major centers for research in the US continue to ignore the real facts about CFS, instead pushing their own biased pet theories. The continued use of the seriously flawed Reeves definition is just more of the same.

National Alliance for

134 Myalgic

Encephalomyelitis

For all unable to speak for themselves

135 Peggy Lundquist	Please include "post exertional malaise" in the definition. I have been ill since 1987 and this symptom has never left me. I am not suffering from depression, I am suffering from irritation from the lack of acceptance of a serious health condition. I now have cancer as well and still cannot find a primary care physician to care for me as I have been diagnosed with a disease few understand or take seriously. Please, focus we need better.
136 Alan Gurwitt	•
137 Loretta Duzan	I have had CFS for 40 Years and was diagnosed as mental case for 20 of those years. I think it is high time this disease was taken seriously. It has brought down so many people. I could only work and sleep. No personal life at all. That is no way to live.
138 Jenny Griffin	
139 mia lauren	Having had ME for over 50 years I completely concur with the statement
<b>140</b> pauline ovenden	made by Tom Kindlon
141 Anonymous	
142 Anne-Marie Woynillowicz Kemp	The Canadian Clinical Case Guidelines, which are really international, should be used around the world. CDC should adopt them.
143 Carole Sturgis	Thank you for this petition - it is crucial to get research and understanding
144 jacqueline christensen	for people with CFS.
<ul><li>145 Anonymous</li><li>146 Laura Ingraham</li><li>147 Jan Andersson</li></ul>	
148 Laura Dunks	I have ME/CFS and I believe that it is important to correctly define the illness to provide appropriate research. We needs answers!!!!!
<ul><li>149 Hillary L. Culver</li><li>150 Anonymous</li><li>151 Daniela Martins</li><li>152 Anonymous</li><li>153 Maureen Goggins</li></ul>	inness to provide appropriate research. We needs answers:::::
I ha 154 Barbara Berger all a	ave just crossed the 21 year mark as a Chronic Fatigue Syndrome patient. We agree that research is essential, but how that research is done or interpreted is to any progress.
155 Stephen Philip Cox	
<b>156</b> Fiorella Mucci Guido den Bet	ter still: drop CFS altogether. Myalgic Encephalomyelitis is a genuine
Broeder dise	ease, CFS is an artifact that serves only to stigmatize and confuse.
<ul><li>158 Shelley Lauer</li><li>159 Maartje Dijkstra</li></ul>	
160 Charlotte von Salis	
161 Sarah Goodwin	
162 Bernie Standish JOAN	
MCPARLAND	
<ul><li>164 Anonymous</li><li>165 Anonymous Dr.</li></ul>	Reeves is using this disease for his own political gain-he is profiting

personally and financially by reclassifying CFS as a psychological illness. There is overwhelming evidence that viruses are involved and the CFS definition should reflect the actual symptoms of the disease.

- 166 Rebecca Cordingley
- Christina 167 Omorochoe
- 168 Susanna Agardy
- **169** Lyle Allan
- 170 Anonymous my girlfriend has me
- 171 cor soeterbroek
- 172 A.C.van der Wel
- **173** gea
- Dr. Katharine M.
- Kanak
- 175 Anonymous
- 176 Diane Lewis
- **177** Jerrold Spinhirne
- 178 J McCall
- **179** Ray Colliton
- 180
- **181** Anonymous none
- 182 Truthseeker
- **183** Anonymous
- 184 Margaret Williams
- I just want the truth, and compassion for children and adults who have ME. I will 185 joy birdsey never use the initials CFS.
- **186** Anonymous
- 187 Alison Wallace
- 188 Marie L. Martineau
- 189 Anna Wood
- 190 Leonard Wagner
- 191 Marcia Brewer
- 192 Anonymous
- **193** Cathleen Connor
- 194 Roger Morgan
- 195 Anonymous ME-patient (Belgium)
- 196 antoinette Christie
- 197 Laurence Swift
- 198 Paula Gilfedder
- 199 Maggie Wallace
- 200 Thomas Ragan
- 201 Denise Visscher CFS patient
- 202 Jan van Roijen
- 203 Lea Schorr
- 204 Jeanette Marley
- 205 Bernice A. Melsky

206 michael allen, ph.d	•
207 Anonymous	I was disabled in 1987 with chronic EBV; changed to CFS in 1988. The disease evolved into T-Cell Lymphoma in 2001
<ul><li>208 Christine Gow</li><li>209 Raymond Milsted</li><li>210 William Caroli</li></ul>	Lets have some proper medical research
211 Paula Kenley Freeman	I have had CFS since 1997, and it is way past time for the CDC to be using the obsolete empirical definition. Updating the definition would offer researchers a less vague umbrella under which to work.
<ul><li>212 Jules De Cuyper</li><li>213 Shan Russell</li><li>214 John Herd</li><li>215 Anonymous</li><li>216 Orla Ni Chomhrai</li><li>217 Anonymous</li></ul>	
218 Anonymous	Myalgic Encephalomyelitis is the official name for the disease - in use for over 50 years now - and the Canadian definition is superior to any of the CFS definitions.
<ul> <li>219 Anonymous</li> <li>220 Margaret Holt Baird, Esq.</li> <li>221 katherine Bishop</li> <li>222 Paul Thompson</li> <li>223 Diane Grum</li> </ul>	I am concerned about definitions that ignore significant additional research, and potentially stigmatize persons with this and related disabilities wrongfully. I am strogly opposed to the Reeves definition
Patricia Blankenship 225 Anonymous 226 P.L. Bourdon	The World knows what CFS (ME) is - the CDC needs to retire from the fray.
227 Sandra Cole	Before my illness I was enjoying my life. First, as an advanced nurse practitioner and as a professor at a university teaching nursing. I then went back to law school and obtained a J.D. I practiced law before contracting this illness. That was 12 years ago. I believe what Mr. Kindlon has stated above. I also believe that Mr. Reeves should not be in charge of this program as he does not support logical definitions or programs concerning this population. Please get someone who cares about us to run this program. This has gotten way out of hand.
<b>228</b> Catherine Foxwell	nand.
229 Guido Flobert	my wife suffers from cvs me already for years and had to retire early for this by decision of a board of medicins
<ul> <li>230 S. Young</li> <li>231 Vicky Vandendriessche</li> <li>232 P Angiollilo</li> <li>233 nancy Rauhofer</li> </ul>	
<ul><li>234 Robin Syms</li><li>235 Yvonne Leach</li></ul>	It is time this illness is called what it really is. CFS I am very concerned that a mishmash of diseases have been incorporated under the umbrella of CFS. It would be premature to decide on measures to reduce CFS if there is no definitive cause. Trying to find psycological markers would be as wasteful of time and money as trying to find psycological markers for

diabetes type 1, for example. 236 H.Patten **237** D. de Boer 238 RACHEL 239 Anneco Blanson better have strict criteria for ME research - would really be more helpfull for Henkemans research results and ME patients. **240** Anonymous 241 Anonymous 242 sue hogben 243 Anonymous **244** Wil Sengers 245 Anonymous 246 Sarah Robinson 247 Ingeborg **248** gaston gingues CFIDS sufferer for 6 years and counting! 249 Anonymous 250 Carole Howard 251 Rik Carlson 252 Anonymous 253 Jami M Griscom 254 Anonymous **255** Daniel Prince 256 Anonymous 257 Josette LincourtCan the Reeves definition. 258 Anonymous 259 jean Harrison **260** Anonymous 261 Liz Wenn 262 Alpha Mason 263 R Manning **264** Anonymous 265 kathleen Flaherty, J.D. 266 Marie Jerales **267** Anonymous Siobhan Copson as a sufferer of m.e. for 25 yrs i need to see that this illness is taken seriously and **269** Anonymous classified properly and also proper bio-medical research carried out 270 Anonymous **271** Anne James

272 Rosemary Humby

Incorrect selection of patients who are to be the subject of research studies renders the results of the research worthless. Every opportunity must be taken to ensure that this does not happen. The US could be leading the world in CFS research, yet it appears that it is in danger of simply following the models of bad practice which are perpuated elsewhere.

273 Anonymous

274 Susan Marshall

275 Invest in ME

The empirical definition identifies such a broad range of patients that it can include people who are physically able to run a marathon. Such absurdities allow the figures of prevalence of ME/CFS to be raised from 0.4% of the population to over 2.5% in a recent study. As such the empirical definition is worthless for serious scientific studies.

276 Sarah Labovitch

277 Annabel Luery

278 Alison Orr

**279** Anonymous

I have had Me for 7 years. It has taken away what should have been the peak years of my life - I cannot get those years back but would like to make the most of whatever years I may have left - to do this I need appropriate medical treatment - spurious arguments geared towards the selection of illness criteria which suit a particular cadre of researchers as opposed to the needs of people with this devastating illness are helping no one. Please think of the lives of people with this illness and end this now.

280 John Wallace

281 Alison Wallace

282 Pat Sonnett

283 Anonymous

The empirical case definition (Reeves et al 2005) lacks specificity and allows the inclusion of subjects as having CFS who actually have major depression and other non CFS disorders as a primary diagnosis. This has been published by Jason et al and is clear to anyone who is familiar with the questionnaires being used and the criteria of the common psychiatric disorders. The CDC has the opportunity to set a high standard for CFS research by admitting that the Empirical Criteria were misguided and should not be used. It would be better to continue to use the Fukuda Criteria while calling together a truly representative group of experts to develop research criteria based on both epidemiological and biomedical research. I am a PWC since 1992. I have clearly defined physical abnormalities (immune dysfunction, brainwave abnormalities, seizure problems) in addition to more common symptoms. The Reeves empirical definition broadens the definition of CFS to such an extent as to make accurate diagnosis impossible. It also makes research done using the Reeves definition meaningless. Treatments effective for

284 Eleanor Stein MD FRCP(C)

285 Anita Swann

people with MDD are uselessand possibly harmful for me. When will CFS patients receive a competent, meaningful research program from the CDC?

286 Michelle Perkins

287 Carolyn Allison

Anything that could help to cure or relieve the living death that ME sufferers have to endure is worth pursuing; anything that threatens to jeopardise such moves deserves total annihilation.

289 Rachel Millward

290 Caroline

**291** Catherine

Please research the connection of ME with Wi-fi, mobile/digital phones, radio masts etc. incl. all electromagnetic effects in this so called modern/progressive world, the appalling continued use, by NHS, of mercury in amalgam fillings & the

resultant detremental health effects this practice has.

The reeves definition includes patients who have Fatigue for emotional reasons. this serves to confuse the research data. giving false results for trials of treatments. me/cfs is a devastatingly disabling neurological illness that needs bio medical research, this definition hinders this taking away funding from the true me/cfs patients, there is brilliant research being done in the usa by for eg whittlemore peterson inst, dr chia, dr learner.

293 Anonymous

292 julia warman

Adopting the empirical definition is a waste of precious time and money as well as 294 Karen compounding the suffering of those with CFS/ME who continue to be failed by the McMillan NHS.

295 Anonymous

That we may help to save others from the crippling effects of misinformation

296 Anonymous 297 Christine

Stronach Pamela Mawanda

I have cfs

**299** J. Morton

300 Catherine Evans

I have been a carer for 15 years and have seen my daughter lose what should have been the best years of her life, going from "young and upcoming" to almost middle aged, bedridden, pretty helpless and still getting worse. We, her elderly parents, remain terrified for her future wellbeing.

**301** Jo Gurney

302 Susannah Johnson

303 Katy Wimhurst

**304** paula gilfedder

305 Sharon Stapleton Get rid of Reeves and replace him with someone with a brain in their head. The CDC has done nothing for CFIDS research. Actually, CDC has thrown us backwards and kept us in the Dark Ages. We need NEW CFS leaders at the CDC -

After collapsing in 1989, I have lived a very limited life for 20 years, as I continue 306 Marsha Moore to be seriously disabled with cfids.

307 Mike Hughes

308 Lisa Connor

**309** Anonymous

310 Beth

Beardmore

311 Dave Holt

**312** Kathy Clifford

Rose Anne

Clifford

Kathleen

Clifford

315 Margaret

McFadden

316 Kathy McFadden

317 Gemma Ford

318 Katherine

Clifford

319 Anonymous

320 Anonymous

The new "emipicial definition" of CFS/ME which is very flawed. In short, the criteria are so non specific that up to 40% of people with major depression and NO disabling fatigue would qualify as having CFS. It was after these criteria came out in 2005 that the CDC announced that the prevalence of CFS was 3X higher than previously reported. The prevalence of CFS did not jump, rather more people with other types of problems were now included under the CFS label. Leonard Jason

presented his research on this issue at the November conference. The ramifications of the world researchers using these criteria are serious as it means we will continue

to have inaccurate studies with misleading findings.

321 Leanne Morgan

322 Carol McTavish

323 Anonymous

324 Francelia E. Poirier

325 Steven Kusen

The criteria should include (and even quantify) the disabling fatigue that is associated with CFS.

326 Lilliana Sejic

327 Goran Prvulovic

328 Mark
Prvulovic

My mom has been sick for fourteen years, I wish that this illness receives the attention and funding it so desperately needs.

329 Marina Sejic

Like many modern era diseases this one is surely connected to our chemical environment and the use of chemicals to eliminate germs and decrease our natural immune system. Maybe if the CDC and the FDA were public entities then they would take more time and responsibility to find the causes of these diseases and therefore eliminate them altogether. I strongly support this action of changing the definition to more specific one.

330 Darlene Blair

331 Evelyn Violini

332 Matilda Morgan Mary &

333 Kathleen Lewin

334 Judy Goodzeck

335 Naomi Hooke

336 William G Hartwell

M.E. is a real disease, with real signs and symptoms. STOP misdiagnosing it as the phony CFS!

337 Aisling

338 Lori Hoffman

339 trish murphy

**340** Anonymous

**341** Robin. A

.Brook

342 Vicky Stringer

343 Anonymous

344 Clair

**345** Anonymous

346 Charlotte Howarth

**347** Anonymous Please listen to CFS/ME patients

\_\_\_\_\_

Appendix 2: Some comments I (mainly) and some others have made on the empirical/Reeves definition and related papers:

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http://www.pophealthmetrics.com/content/3/1/8/comments

Psychometric properties of the CDC Symptom Inventory for assessment of Chronic Fatigue Syndrome

Dieter Wagner ⊠, Rosane Nisenbaum ⊠, Christine Heim ⊠, James F Jones ⊠, Elizabeth R Unger ⊠and William C Reeves ⊠

Population Health Metrics 2005, 3:8doi:10.1186/1478-7954-3-8

More symptoms could be added to a CFS Symptom Inventory

Tom Kindlon (21 June 2007) Irish ME/CFS Support Group ■

Many would feel that the 8 symptoms used in the CDC '94 definition [1] were chosen in a somewhat arbitrary fashion; so it is to be welcomed that the CDC itself has started to look beyond these symptoms with the CDC CFS Symptom Inventory. The idea of a Short Form of the CDC Symptom Inventory is also interesting.

However, it is not clear to me where the extra symptoms that are on the CDC CFS Symptom Inventory came from. For example, I didn't see some of the symptoms listed in Reeves et al [2].

In 2001, De Becker et al [3] published data on the symptoms found in over 2500 patients. They tried to improve on the 1988 [4] and 1994 CDC criteria. They suggested a list of symptoms that could be used to strengthen the ability to select ME/CFS patients. Many of the symptoms they mentioned are not in

the CDC CFS Symptom Inventory. So to claim that the "CDC Symptom Inventory assesses the full range of CFS associated symptoms" seems questionable.

It would be interesting if in future these symptoms (that De Becker et al were suggesting) were added before statistical analyses are performed.

The fatigue criteria and functional impairment criteria have become much less restrictive [5]. For example, to satisfy the fatigue criteria, the fatigue is required to be greater than or equal to the medians of the MFI general fatigue (\geq 13) or reduced activity (\geq 10) scales. So it now seems particularly important that the symptom criteria have good sensitivity and specificity or one is going to end up with a definition that leads to very heterogeneous samples.

Tom Kindlon

[1] Fukuda K, Straus SE, Hickie I, Sharpe MC, Dobbins JG, Komaroff A: The chronic fatigue syndrome; a comprehensive approach to its definition and study.

Ann Int Med 1994, 121:953-959.

[2] Reeves WC, Lloyd A, Vernon SD, Klimas N, Jason LA, Bleijenberg G, Evengard B, White PD, Nisenbaum R, Unger ER, International Chronic Fatigue Syndrome Study Group: Identification of ambiguities in the 1994 chronic fatigue syndrome research case definition and recommendations for resolution.

BMC Health Services Research 2003, 3:25.

http://dx.doi.org/10.1186/1472-6963-3-25

[3] A definition-based analysis of symptoms in a large cohort of patients with

chronic fatigue syndrome, P. De Becker, N. McGregor, and K. De Meirleir.

Journal of Internal Medicine 2001;250:234-240

[4] Holmes GP, Kaplan JE, Gantz NM, Komaroff AL, Schonberger LB, Straus SE, et al.: Chronic fatigue syndrome: a working case definition. Ann Intern Med 1988, 108:387-389.

[5] Reeves WC, Wagner D, Nisenbaum R, Jones JF, Gurbaxani B, Solomon L, Papanicolaou DA,

Unger ER, Vernon SD, Heim C: Chronic fatigue syndrome — a clinically empirical approach

to its definition and study. BMC Medicine 2005, 3:16.

Competing interests

No competing interests

top

Observations on apparent changes in methods of assessing symptoms

Tom Kindlon (06 July 2007) Irish ME/CFS Support Group ⊠

I notice that the "Symptom Inventory collects information about the presence, frequency, and intensity of .. symptoms during the month preceding the interview".

However the Fukuda et al '94 definition [1] is supposed to look for "the concurrent occurrence of four or more of the following symptoms, all of which must have persisted or recurred during 6 or more consecutive months of illness and must not have predated the fatigue".

Was there a particular reason why a time frame of one month was chosen? This would suggest that relatively short-lived symptoms would be counted. If the reasoning was that asking people detailed questions about symptom severity and frequency over a longer period would might not be as accurate, perhaps a two-stage question could be asked: firstly asking whether symptoms "have persisted or recurred during 6 or more consecutive months of illness" and then asking a more detailed question about frequency and intensity.

I also see no mention of the requirement, that was in the initial definition [1], that the symptoms didn't predate the fatigue. Again, if this is a change, it would seem to risk reducing the specificity of the symptom criteria (i.e. increasing the chences that symptoms from other causes are counted) so perhaps again a yes/no question would be good.

Tom Kindlon

[1] Fukuda K, Straus SE, Hickie I, Sharpe MC, Dobbins JG, Komaroff A: The chronic fatigue syndrome; a comprehensive approach to its definition and study. Ann Int Med 1994, 121:953-959.

Competing interests

No Competing Interests

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http://www.biomedcentral.com/1741-7015/3/19/comments/comments

### Chronic Fatigue Syndrome – A clinically empirical approach to its definition and study

William C Reeves ➡, Dieter Wagner ➡, Rosane Nisenbaum ➡, James F Jones ➡, Brian Gurbaxani ➡, Laura Solomon ➡, Dimitris A Papanicolaou ➡, Elizabeth R Unger ➡, Suzanne D Vernon ➡ and Christine Heim ➡

BMC Medicine 2005, **3:**19doi:10.1186/1741-7015-3-19

### How many SF-36 subscales were used for the "standardized clinically empirical criteria"?

**Tom Kindlon** (26 June 2007) Irish ME/CFS Support Group ⊠

I wonder whether the authors would confirm in a quick comment how many of the 8 subscales of the SF-36 they used?

In the "empirical definition", they appear to me to use four: Role-Physical, Role-Emotional, Physical Functioning and Social Functioning:

[Reference: "We defined substantial reduction in occupational, educational, social, or recreational activities as scores lower than the 25th percentile of published US population [11] on the physical function ( $\leq$  70), or role physical ( $\leq$  50), or social function ( $\leq$  75), or role emotional ( $\leq$  66.7) subscales of the SF-36."

However, in the pre-publication history they say:

- ".. We used only 3 of the 8 SF-36 and 2 of the 5 MFI scales in the empirical definition."
- see http://www.biomedcentral.com/imedia/7804319382956733\_comment.pdf

I was just hoping that 3 is actually the number of subscales they used and that they didn't use the Role-Emotional subscale, as I question the value of using that subscale to satisfy functional impairment criteria.

Tom Kindlon

#### **Competing interests**

No Competing Interests

top

### MDDm should be resolved for more than 5 years before a CFS diagnosis can be given

**Tom Kindlon** (26 June 2007) Irish ME/CFS Support Group ⊠

In this paper, it says:

"Following recommendations of the International CFS Study Group, only current MDDm was considered exclusionary for CFS."

However, part of the specific recommendations of the International CFS Study Group [1] was that MDDm had to have been resolved for more than 5 years:

"The 1994 case definition stated that any past or current diagnosis of major depressive disorder with psychotic or melancholic features, anorexia nervosa, or bulimia permanently excluded a subject from the classification of CFS ... we now recommend that if these conditions have been resolved for more than 5 years before the onset of the current chronically fatiguing illness, they should not be considered exclusionary."

It might not be important to point this out for definitions for some illnesses: however if one looks at table 2, 6 of the 16 who are said to have CFS using the "current classification" of CFS, had been diagnosed with MDDm at a previous assessment which suggests it is important in this context.

Tom Kindlon

[1] Reeves WC, Lloyd A, Vernon SD, Klimas N, Jason LA, Bleijenberg G, Evengard B, White PD, Nisenbaum R, Unger ER, International Chronic Fatigue Syndrome Study Group: Identification of ambiguities in the 1994 chronic fatigue syndrome research case definition and recommendations for resolution.

BMC Health Services Research 2003, 3:25.

http://dx.doi.org/10.1186/1472-6963-3-25

#### **Competing interests**

No Competing Interests

top

Data from another population study found scores on the RE subscale are similar in CFS patients to those found in healthy controls

**Tom Kindlon** (09 July 2007) Irish ME/CFS Support Group ⊠

In a previous comment I said that I questioned the value of using the Role Emotional (RE) subscale to satisfy functional impairment criteria.

Researchers deciding whether to follow the method of operationalizing the Fukuda [1] used in this study, might be interested at looking at Table 2 in Jason et al [2]. The subjects were also obtained from a random-digit population study.

Here is what the authors said in the text on this part of the results:

"A MANCOVA for the Medical Outcomes Study SF-36 Health Survey (controlling for the effects of work status) revealed significant differences in gradations of disability across the diagnostic categories of CFS only, MCS only, FM only, more than one diagnosis, and no diagnosis on seven of the eight subscales (F(4,208) = 1.82, p < .05). The role-emotional scale was the only scale that did not reveal significant differences between the groups (see Table 2). Significant post hoc tests revealed that individuals with CFS demonstrated greater disability than those with no diagnosis on the role-physical; bodily pain; vitality; and social functioning scales. Individuals with MCS demonstrated greater disability than the no diagnosis group on the physical functioning; role-physical; bodily pain; general health; vitality; social functioning; and mental health scales. Individuals with FM demonstrated greater disability than the no diagnosis group on the physical functioning; role-physical; bodily pain; and social functioning scales. In addition, individuals with more than one diagnosis demonstrated greater disability than those in the no diagnosis group on the physical functioning; role-physical; bodily pain; vitality; and social functioning scales. Means for each of the Medical Outcomes Study subscales are reported in Table 2."

This issue of how the Fukuda criteria [1] are operationalized is not a trivial matter. Using the previous method of operationalizing the criteria, a CDC team found a prevalence for CFS of 235 per 100,000 [3]. Using the method of operationalizing the criteria outlined in this study, the prevalence rate for CFS was found to be 2.54% or 2540 per 100,000 [4] or 10.81 times the previous prevalence rate!

#### Tom Kindlon

[1] Fukuda, K., Straus, S.E., Hickie, I., Sharpe, M.C., Dobbins, J.G., & Komaroff, A. (1994). The chronic fatigue syndrome: A comprehensive approach to its definition and study. Annals of Internal Medicine, 121 (12):953-959. http://www.annals.org/cgi/content/full/121/12/953

[2] Jason, L.E., Taylor, R.R., & Kennedy, C.L. "Chronic Fatigue Syndrome, Fibromyalgia, and Multiple Chemical Sensitivities in a Community-Based Sample of Persons With Chronic Fatigue Syndrome-Like Symptoms." Psychosomatic Medicine 62:655-663 (2000).

http://www.psychosomaticmedicine.org/cgi/reprint/62/5/655

[3] Reyes M, Nisenbaum R, Hoaglin DC, Unger ER, Emmons C, Randall B, Stewart JA, Abbey S, Jones JF, Gantz N. Prevalence and incidence of chronic fatigue syndrome in Wichita, Kansas. Arch Intern Med. 2003;163:1530–1536. doi: 10.1001/archinte.163.13.1530.

[4] Reeves WC, Jones JF, Maloney E, Heim C, Hoaglin DC, Boneva RS, Morrissey M, Devlin R. Prevalence of chronic fatigue syndrome in metropolitan, urban, and rural Georgia. Population Health Metrics 2007, 5:5 doi:10.1186/1478-7954-5-5

#### **Competing interests**

No Competing Interests

#### top

This may not be a representative group of those who would be diagnosed in a random sample using the "standardized clinically empirical criteria"

**Tom Kindlon** (02 January 2008) Irish ME/CFS Association - for Information, Support & Research 

☑

This "empirical" method of operationalizing the CDC 1994 CFS criteria[1] has subsequently been used in a population study[2]. It found a prevalence rate for CFS of 2540 per 100,000 persons 18 to 59 years of age[2].

This is considerably higher than the prevalence rates found in earlier studies. For example, a previous study using this cohort using a "previous" method of operationalizing the CDC 1994 CFS criteria[1] found a prevalence rate of 235 per 100,000[3].

Given the way the cohort in this current study was drawn up, using 58 people who had previously been diagnosed using a "previous" method of operationalizing the CDC 1994 CFS criteria, the group satisfying the new method of operationalizing the CDC 1994 CFS criteria, the "empirical" criteria, in this study may well not be the same sort of people that would show up if the method was used on a random sample of the population. So for example the results in Table 6 may not be similar to the results one can get in a random sample.

Unfortunately the paper giving the prevalence rate for Georgia[2] does not give the same pieces of information as is in Table 6 in this study. However we do have a paper which uses a group from the Georgia cohort[4]. Table 1 of this study[4] includes similar data. Some of the numbers are somewhat

similar. However one that particularly stands out is the Role Emotional score. It was 35.6 (95% CI: 26.3-44.8). That compares to the value in this paper of 55.8+/-42.2.

Perhaps other data will be published in time. The main point of this comment is to point out or remind people that the data presented in this paper may not be representative of those that would be diagnosed using the empirical criteria.

Tom Kindlon

[1] Fukuda K, Straus SE, Hickie I, Sharpe MC, Dobbins JG, & Komaroff A. (1994). The chronic fatigue syndrome: A comprehensive approach to its definition and study. Annals of Internal Medicine, 121 (12):953-959. http://www.annals.org/cgi/content/full/121/12/953

[2] Reeves WC, Jones JF, Maloney E, Heim C, Hoaglin DC, Boneva RS, Morrissey M, Devlin R. Prevalence of chronic fatigue syndrome in metropolitan, urban, and rural Georgia. Population Health Metrics 2007, 5:5 doi:10.1186/1478-7954-5-5

http://www.pophealthmetrics.com/content/5/1/5

[3] Reyes M, Nisenbaum R, Hoaglin DC, Unger ER, Emmons C, Randall B, Stewart JA, Abbey S, Jones JF, Gantz N, Minden S, Reeves WC: Prevalence and incidence of chronic fatigue syndrome in Wichita, Kansas. Arch Int Med 2003, 163:1530-1536.

[4] Nater UM, Maloney E, Boneva RS, Gurbaxani BM, Lin JM, Jones JF, Reeves WC, Heim C. Attenuated Morning Salivary Cortisol Concentrations in a Population-based Study of Persons with Chronic Fatigue Syndrome and Well Controls. J Clin Endocrinol Metab. 2007 Dec 26

#### **Competing interests**

No competing interests

top

Why is this definition being referred to as an "empirical definition"?

**Tom Kindlon** (18 June 2008) Irish ME/CFS Association - for Information, Support & Research ■

I believe most people's understanding of "empirical criteria" or an "empirical definition" would be that the data would speak for itself; it "would decide" the cut-off points through methods such as cluster analysis (for example).

Indeed this would seem to have been William Reeves' understanding of an empirical definition. For example, in a presentation on the CDC's CFS research program (to a Task Force Meeting on the Epidemiology of Interstitial Cystitis)[1], he said:

"The problem with the CFS criteria was that they were not specific enough and not empiric-based. For example, one of the criteria stated that the research subject must have at least four of eight symptoms, among them, impaired concentration or memory and postexertional worsening of physical or mental fatigue. "The accompanying symptoms need to be defined in and of themselves," Dr. Reeves said. The 1994 International Study Group also hypothesized that fatigue led to patients' symptoms rather than the reverse. The CDC is currently conducting population studies to develop an empiric definition of CFS that is based on statistical modeling."

At the inaugural meeting of the US Department of Health and Human Services' Chronic Fatigue Syndrome Advisory Committee (CFSAC), Dr Reeves said the CDC team of research would "derive an empirical case definition based on data".[2]

The definition presented here does not seem to have been based either on "statistical modeling" or "data". It seems to involve relatively arbitrary cut-off points; for example, of the 8 subscales of the SF-36, four are chosen and, for each of these, the 25th percentile of the published US population is chosen as a cut-off point. A patient is required to be in the bottom quartile for just one of these subscales to satisfy the criteria. Where did this cut-off point come from? There is no mention of it in the paper that suggested the use of the SF-36[3]; nor is there any mention that these particular subscales should be chosen or that one would sufficient. One of the authors of the paper[3] has confirmed that cut-off points were never chosen nor was it decided which sub-scales would be used. Given that the CDC's definition of CFS tends to go on to be used in numerous studies, would it not be better to investigate which thresholds give a "better" definition e.g. with a higher specificity and sensitivity - for example, for some of the SF-36 subscales, perhaps (say) the 13th, 15th, 20th or even 30th percentiles may be more appropriate.

The cut-off points suggested in this paper may or may not be useful. But is it really accurate to suggest that they are "empirically" derived?

[1] Epidemiology of Interstitial Cystitis - Executive Committee Summary and Task Force Meeting Report October 29th, 2003. http://www.niddk.nih.gov/fund/reports/ic/task\_force\_summary.pdf

[2] US Department of Health and Human Services - Chronic Fatigue Syndrome Advisory Committee (CFSAC). Inaugural Meeting. September 29th, 2003

Meeting Summary. http://www.hhs.gov/advcomcfs/CSFAC\_mins\_2003.09.29R.pdf

[3] Reeves WC, Lloyd A, Vernon SD, Klimas N, Jason LA, Bleijenberg G, Evengard B, White PD, Nisenbaum R, Unger ER, International Chronic Fatigue Syndrome Study Group: Identification of ambiguities in the 1994 chronic fatigue syndrome research case definition and recommendations for resolution. BMC Health Services Research 2003, 3:25

#### **Competing interests**

No competing interests

top

### Using two MFI scales ("General Fatigue" or "Reduced Activity") to ensure patients satisfying the definition have "severe fatigue"

**Tom Kindlon** (30 June 2008) Irish ME/CFS Association - for Information, Support & Research ■

Initially when I read this paper, where it says "we defined severe fatigue as >= medians of the MFI general fatigue (>=13) or reduced activity (>=10) scales", I thought this referred to medians of the general population.

Hearing other people commenting on it, that's how some other people have been interpreting it also. It is probably somewhat natural to do this as the sentence before reads: "We defined substantial reduction in occupational, educational, social, or recreational activities as scores lower than the 25th percentile of published US population [11] on the physical function (<=70), or role physical (<=50), or social function (<=75), or role emotional (<=66.7) subscales of the SF-36."

However from looking at the scores for controls in other papers, these MFI scores do not look like medians for the whole US population but in fact are medians for this particular group of patients. This seems a strange way to set cut-off points for a CFS definition that is used for numerous studies into the illness, given the cohort that is being used as a basis:

"This population-based case control study enrolled 227 adults identified from the population of Wichita with: (1) CFS (n = 58); (2) non-fatigued controls matched to CFS on sex, race, age and body mass index (n = 55); (3) persons with medically unexplained fatigue not CFS, which we term ISF (n = 59); (4) CFS accompanied by melancholic depression (n = 27); and (5) ISF plus melancholic depression (n = 28)." i.e. this is not a random sample of the US population but a group of people selected for a specific purpose (or purposes) (not necessarily to design a definition, but as a follow-up study of people

previously diagnosed with CFS or given some other label). Some of the groups are of different sizes - if the relative size of these groups had been changed, with relatively more people taken from some classification groups and less people taken from other groups, the median scores would likely have been different.

It should also be remembered that in this context the categories listed in the last paragraph refer to their classification when they evaluated years before (from 1997 to 2000), and not necessarily at the time when they were evaluated in this study (December 2002 to July 2003) (as is clear from the tables in this paper).

I thought it would be interesting to look at MFI scores in some other papers on CFS that did not use the "empirical definition".

I don't claim this is a definitive list but, at the same time, mean MFI scores with standard deviations only seem to be listed in a small percentage of papers.

The papers use cohorts from a variety of locations: England [3], The Netherlands [4], Germany [5] and the USA (New Jersey) [6].

I did not see any ranges given which would be useful given the task at hand (selecting cut-off points for a definition).

Unfortunately not all of the papers I found used the Fukuda [1] definition for CFS; some also used the Sharpe [2] definition for CFS. I indicate which definition is used in each case.

MFI: General Fatigue

Sample Sample Size Mean SD (Mean - 13)/SD Definition

Weatherley-Jones [3] 53 18.4 1.7 3.176470588 Sharpe (1991)

Vermeulen (Group 1) [4] 30 18.6 1.9 2.947368421 Fukuda (1994)

Vermeulen (Group 2) [4] 30 18.4 1.8 3 Fukuda (1994)

Vermeulen (Group 3) [4] 30 19.1 1.4 4.357142857 Fukuda (1994)

Gaab [5] 21 17.7 0.5 9.4 Sharpe (1991) and Fukuda (1994)

Brimacombe [6] 65 18.41 2.02 2.678217822 Fukuda (1994)

Combining these give a sample of 229 patients with a mean "General Fatigue" score of 18.45655022.

This data suggests that a threshold of >=13 will have a very very high sensitivity. This would suggest that another measure would not be necessary (unless it was being used as an extra criterion to increase the specificity, which isn't done with this definition).

However for completeness, I'm including the "Reduced Activity" data from the same papers:

Reduced activity (MFI)

Sample Sample Size Mean Score SE (Mean-10)/SD Definition

Weatherley-Jones [3] 53 16.1 3.1 1.967741935 Sharpe(1991)

Gaab [5] 21 15 0.7 8.714285714 Sharpe (1991) and Fukuda(1994)

Brimacombe [6] 65 15.93 4.55 1.340659341 Fukuda 1994

Combining these give a sample of 139 patients with a mean Reduced Activity score of 15.85431655.

Note: the Vermeulen paper[4] did not collect the MFI scores for Reduced Activity, just "the fatigue axes of the Multidimensional Fatigue Inventory" (which they defined as the MFI scores for General fatigue, Physical fatigue, Mental fatigue). It seems strange in the definition of Chronic Fatigue Syndrome defined in this paper (i.e. Reeves et al) that the "severe fatigue" criterion can be satisfied by a patient having a low score on a subscale of the MFI testing activity levels (as opposed to one of the 3 subscales measuring fatigue), especially when the function of the SF-36 is to "measure functional impairment". Just because someone is inactive doesn't mean they have severe fatigue. Allowing patients to be included if they simply have a "Reduced Activity" score of 10 or more (without necessarily having a low score on one of the fatigue axes of the MFI) risks reducing the specificity of the definition.

- [1] Fukuda K, Straus SE, Hickie I, Sharpe MC, Dobbins JG, Komaroff A. The chronic fatigue syndrome; a comprehensive approach to its definition and study. Ann Int Med 1994, 121:953-959.
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- [3] Weatherley-Jones, E., Nicholl, JP., Thomas, KJ., Parry, GJ., McKendrick, MW., Green, ST., Stanley, PJ and Lynch, SPJ. A randomised, controlled, triple-blind trial of the efficacy of homeopathic treatment for chronic fatigue syndrome. Journal of Psychosomatic Research, 2004, 56, 2, 189-197.
- [4] Vermeulen, RCW and Scholte, HR. Exploratory open label, randomized study of acetyl- and propionylcarnitine in chronic fatigue syndrome. Psychosomatic Medicine, 2004, 66, 276-282.
- [5] Gaab J, Hüster D, Peisen R, Engert V, Heitz V, Schad T, Schürmeyer TH, Ehlert U. Hypothalamic-pituitary-adrenal axis reactivity in chronic fatigue syndrome and health under psychological, physiological, and pharmacological stimulation.

Psychosom Med. 2002 Nov-Dec;64(6):951-62.

[6] Brimacombe, Michael; Lange, Gudrun; Bisuchio, Kim; Ciccone, Donald S.; Natelson, Benjamin. Cognitive Function Index for Patients with Chronic Fatigue Syndrome Journal of Chronic Fatigue Syndrome, 2004, vol 12; number 4, pages 3-24

#### **Competing interests**

No competing interests

top

Analyses of 2 separate CFS cohorts found 6 of the 8 SF-36 subscales group together - two that don't are MH and RE (the latter is being used in this definition)

**Tom Kindlon** (30 September 2008) Irish ME/CFS Association - for Information, Support & Research ☑

This paper is supposed to operationalize the recommendations in the consensus paper by Reeves et al[1]. That paper suggested that the SF-36 could be useful as a measure of functional impairment but did not specify which subscales should be used.

The authors of the current paper chose to define "substantial reduction in occupational, educational, social, or recreational activities" as "scores lower than the 25th percentile of published US population [11] on the physical function (less than or equal to 70), or role physical (less than or equal to 50), or social function (less than or equal to 75), or role emotional (less than or equal to 66.7) subscales of the SF-36."

Priebe et al[2] have just published an analysis of a cohort of CFS patients from the UK. "Principal-component analysis of all scale scores revealed 2 distinct components, explaining 53% of the total variance."

"Component 1 comprised 14 variables and had an eigenvalue of 7.9 (32.9% of the variance). It had positive loadings of the SCL-90-R subscales depression, anxiety, obsessive-compulsive symptoms, psychoticism, hostility, phobic anxiety, interpersonal sensitivity, paranoid ideation, the Spielberger Trait Anxiety Questionnaire, Health Anxiety Questionnaire and Beck Hopelessness Scale, and negative loadings of the SF-36 subscales of mental health and emotional role fulfilling." (Remember that lower the scores on the SF-36, the lower the reported functioning in that domain).

The other component involved the other 6 SF-36 subscales, The Fatigue Visual Analogue Scale, SCL-90-R subscale somatization and the Somatic Discomfort Questionnaire (SDQ) (the authors say "the majority of physical symptoms that were assessed was measured on only 2 scales, the somatization subscale of the SF-36\* and the SDQ")

(\*This is presumably a typo and what they are referring to is the SCL-90-R subscale somatization).

Hardt et al [3] have previously performed factor analyses on a large cohort of patients (740 CFS patients from the US, 82 from the UK, and 65 from Germany). They said: "Overall, there was a remarkable similarity in HRQoL among all CFS patients, regardless of location. Patients scored two to three standard deviations below normal on six subscales and one standard deviation below normal on the other two subscales. Factor analysis suggested a two-factor model where the same six subscales (i.e. Bodily pain, General health perception, Limitations due to physical problems, Physical functioning, Social functioning and Vitality) constitute the first factor and the two others (i.e. limitations due to emotional problems (RE) and Mental health) the second factor."

These result bring into question the use of the role emotional subscale alongside the other three subscales (physical function, role physical and social functioning) being used in this so-called "empirical definition".

- [1] Reeves WC, Lloyd A, Vernon SD, Klimas N, Jason LA, Bleijenberg G, Evengard B, White PD, Nisenbaum R, Unger ER: International Chronic Fatigue Syndrome Study Group: Identification of ambiguities in the 1994 chronic fatigue syndrome research case definition and recommendations for resolution.
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- [3] Hardt J, Buchwald D, Wilks D, Sharpe M, Nix WA, Egle UT: Health-related quality of life in patients with chronic fatigue syndrome: an international study. J Psychosom Res 2001; 51: 431-434.

#### **Competing interests**

No competing interests

top

#### **Exclusionary conditions or essential pathology?**

**John Mitchell jr** (23 January 2009) Patient Support Advocate ⊠

One important criticism of the CDC CFS case definition as it stands is based on the following sentences- "CFS is defined as persistent or relapsing fatigue of at least 6-months' duration, that is not alleviated by rest, and that causes substantial reduction in activities. The fatigue cannot be explained by medical or psychiatric conditions and must be accompanied by at least 4 of 8 case defining symptoms (unusual post exertional fatigue, impaired memory or concentration, unrefreshing sleep, headaches, muscle pain, joint pain, sore throat and tender cervical nodes)."

By including the misleading and out of context 'cannot be explained by medical or psychiatric conditions', the authors set up a damaging catch-22 in regards to pathophysiology in CFS, being that if any underlying pathophysiology is found then that patient is then excluded from further study. This makes sense if one understands that fatigue is a common symptom of many illnesses and should not immediately be ascribed to CFS, however in the context the author's use it, it ends up being as if pneumonia or Kaposis Sarcoma were exclusionary conditions when studying AIDS, instead of correctly being considered co-morbid conditions that are results of the underlying disease process.

So although pnuemonia and Kaposis Sarcoma do happen in the population without a person having AIDS, to exclude them from being co-morbid conditions would be absolutely disasterous to AIDS

patients; as many CFS patients argue that excluding any thyroid involvement, elevated c-reactive protein, inflammatory disease, etc. is to them, especially when you consider that these are some of the very areas in which progress is being made by other groups studying CFS.[1,2]

- 1.Evidence of inflammatory immune signaling in chronic fatigue syndrome: A pilot study of gene expression in peripheral blood. Aspler AL, Bolshin C, Vernon SD, Broderick G. Behav Brain Funct. 2008
- 2. Neuroendocrine and immune network re-modeling in chronic fatigue syndrome: An exploratory analysis. Fuite J, Vernon SD, Broderick G. Genomics. 2008 Sep 30.

#### **Competing interests**

none

top

### Another CFS study raises questions about the use of the RE subscale in a definition of CFS

**Tom Kindlon** (23 January 2009) Irish ME/CFS Association - for Information, Support & Research 

☑

Firstly, apologies for sounding like a broken record but the definition the CDC proposes for CFS is an important issue - it tends to be the one adopted by researchers around the world. The definition laid out in this paper continues to be used in papers involving cohorts the CDC has gathered for CFS population studies such as the papers using this cohort (which has been analysed in numerous papers) as well as a later study in Georgia[1].

Fulcher (2000)[2] is another study which raises questions about the use of the Role Emotional (RE) subscale of the SF-36 to select patients with CFS. The study involved 66 patients with CFS without a current psychiatric disorder, 30 healthy but sedentary controls, and 15 patients with a current major depressive disorder. It found, amongst other things, that "the two patient groups were significantly more incapacitated than the sedentary controls on all SF-36 measures (p<0.001), except that the patients with CFS were not significantly different in emotional or mental function." Also, "the depressed subjects were significantly more incapacitated in emotional and mental functioning than the patients with CFS p<0.001)." These results suggest that low scores on the emotional and mental functioning subscales of the SF-36 do not seem to be an intrinsic part of CFS (if they're found, they could be related to comorbid psychiatric issues). They also points out the risks of using the RE subscale alone [especially given CFS shares some characteristics with depression and so some people with

depression (but not CFS) could potentially score the required 25 points on the Symptom Inventory] i.e. one could inadvertently include some people who have depression but not CFS, as CFS patients.

[1] Reeves WC, Jones JF, Maloney E, Heim C, Hoaglin DC, Boneva RS, Morrissey M, Devlin R. Prevalence of chronic fatigue syndrome in metropolitan, urban, and rural Georgia. Popul Health Metr. 2007 Jun 8;5:5.

[2] Fulcher KY, White PD. Strength and physiological response to exercise in patients with chronic fatigue syndrome. J Neurol Neurosurg Psychiatry. 2000 Sep;69(3):302-7.

#### **Competing interests**

No competing interests

top

### Research Study finds 38% of those with a Major Depressive Disorder satisfied these criteria for CFS (i.e. they lack specificity)

**Tom Kindlon** (17 March 2009) rish ME/CFS Support Group ⊠

An interesting study [1] has recently been published on this issue: It investigated 37 participants with a diagnosis of a Major Depressive Disorder and 27 participants with a diagnosis of CFS. It found that 38% of those with a diagnosis of a Major Depressive Disorder were misclassified as having CFS using this new CFS definition [2]. That is to say these criteria lack specificity.

The authors gave some background to the study pointing out that there are several CFS symptoms that are not commonly found in depression and that there has been previous research which has distinguished between CFS and depressed patients.

The authors screened participants from the MDD group to ensure that they did not have CFS as defined by the Fukuda et al. (1994) criteria [3].

For the data, the authors subdivided the MDD group into two groups: those that satisfied the new definition [2], called "MDD/CFS" and those that did not, called "MDD".

There were large differences between the "pure" CFS patients and the other two groups across some of the measures that make up the Reeves (2005) definition [2]. There were also not surprisingly differences in the percentage scores satisfying the criteria from the Reeves (2005) definition.

For example, on the **Role Physical subscale of the SF-36**, the means scores (SDs) across the CFS,

MDD/CFS and MDD groups were: 5.56 (16.01); 51.79 (40.98); 58.7 (45.61). (The data showed that there were the following statistically significant differences at the  $p \le 001$  level: CFS<MDD/CFS and CFS<MDD). The percentages satisfying the criteria (RP less than or equal to 50) were, respectively, 96%, 50% and 44% (The data showed that there were the following statistically significant differences for the percentages at the  $p \le .001$  level: CFS>MDD/CFS and CFS>MDD).

For the **SF-36 Physical Functioning subscale** the respective scores across the CFS, MDD/CFS and MDD groups were 37.41 (23.43); 70.36 (32.90); 76.74 (21.25). (The data showed that there were the following statistically significant differences at the  $p \le .001$  level.: CFS<MDD/CFS and CFS<MDD). The percentages satisfying the criteria (PF less than or equal to 70) were, respectively, 93%, 43% and 35% (The data showed that there were the following statistically significant differences for the percentages at the  $p \le .001$  level: CFS>MDD/CFS and CFS>MDD).

For the **CDC Symptom Inventory CDC scores** (i.e. for the 8 case-defining symptoms) the respective scores across the CFS, MDD/CFS and MDD groups were 43.97 (14.28); 37.56 (10.54); 17.05 (8.62). (The data showed that there were the following statistically significant differences at the  $p \le .001$  level: CFS>MDD and MDD/CFS>MDD). The percentages satisfying the criteria (CDC Symptom Inventory greater than or equal to 25) were, respectively, 100%, 100% and 9% - this part of the definition should naturally the first two groups would be 100% (The data showed that there were the following statistically significant differences for the percentages at the  $p \le .001$  level: CFS>MDD and MDD/CFS>MDD).

However the differences were the opposite (or "backwards") for the **Role Emotional subscale of the SF-36** i.e. rather than the CFS group having the worst score, they actually had the best score - the scores across the CFS, MDD/CFS and MDD groups were: 69.14 (40.22); 19.05 (31.25); 30.43 (40.09) (The data showed that there were the following statistically significant differences at the  $p \le .001$  level: CFS>MDD/CFS and CFS>MDD). The percentages satisfying the criteria (RE less than or equal to 67) were, respectively, 44%, 93% and 78% (The data showed that there were the following statistically significant differences for the percentages at the  $p \le .001$  level: CFS<MDD/CFS and CFS<MDD).

For some subscales, there were no differences across the groups, which also brings about questions about their use in a CFS definition e.g.

- (i) for the **Social Functioning subscale of the SF-36**, the mean scores (SDs) across the CFS, MDD/CFS and MDD groups were: 30.09 (28.43); 41.96 (23.31); 40.22 (25.27). The percentages satisfying the criteria (SF less than or equal to 75) were, respectively, 96%, 100% and 91% (The data showed that there were also no statistically significant differences for the percentages).
- (ii) for the **Reduced Activity scale of the Multidimensional Fatigue Inventory** the scores were: 14.44 (3.79); 13.64 (3.95); 13.17 (4.77). The percentages satisfying the criteria (Reduced Activity score greater than or equal to 10) were, respectively, 85%, 86% and 78% (The data showed that there were also no statistically significant differences for the percentages).

The authors also calculated the **total from each group that would satisfy each of the three criteria in the Reeves Definition[2]**. This showed how poor the SF-36 and MFI criteria are for differentiating between CFS and MDD.

Using the **SF-36 criteria**, every one of the 37 patients with a Major Depressive Disorder satisfied the

criteria used in the Reeves (2005) definition.

With the **Multidimensional Fatigue Inventory criteria**, 34 of the 37 patients (92%) with a Major Depressive Disorder satisfied the Reeves criteria.

The only measure that had any power to distinguish between the two groups was the CDC Symptom Inventory where 16 of the 37 patients (43%) with a Major Depressive Disorder satisfied the criteria. Of course, this is still not a particularly good percentage.

The authors make many of the points that have been made already in these comments. They point out that to score 25 on the CDC Symptom Inventory, somebody doesn't have to be that severely affected by more classic CFS symptoms. They could endorse symptoms such as unrefreshing sleep, impaired memory, headaches and muscle pain and score 25 without too much difficulty (one can score 16 from any one symptom).

This study clearly demonstrates that there is plenty of potential for a CFS definition to be "better" than the Reeves (2005) definition[2].

- [1] Jason, L.A., Najar, N., Porter, N., Reh, C. Evaluating the Centers for Disease Control's empirical chronic fatigue syndrome case definition. Journal of Disability Policy Studies 2008, doi:10.1177/1044207308325995.
- [2] Reeves WC, Wagner D, Nisenbaum R, Jones JF, Gurbaxani B, Solomon L, Papanicolaou DA, Unger ER, Vernon SD, Heim C. Chronic fatigue syndrome--a clinically empirical approach to its definition and study. BMC Med. 2005 Dec 15;3:19.
- [3] Fukuda K, Straus SE, Hickie I, Sharpe MC, Dobbins JG, Komaroff A. The chronic fatigue syndrome; a comprehensive approach to its definition and study. Ann Int Med 1994, 121:953-959.

## **Competing interests**

| No competing interests |  |
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http://www.biomedcentral.com/1471-2377/6/41/comments/comments

### Sleep characteristics of persons with chronic fatigue syndrome and non-fatigued controls: results from a population-based study

William C Reeves █, Christine Heim █, Elizabeth M Maloney █, Laura Solomon Youngblood █, Elizabeth R Unger █, Michael J Decker █, James F Jones █and David B Rye █

BMC Neurology 2006, **6:**41doi:10.1186/1471-2377-6-41

#### New or "Unusual" definition for CFS used in this study

Tom Kindlon (27 October 2008) Irish ME/CFS Association - for Information, Support & Research ☑

People reading this study need to be aware that it uses a new or "unusual" definition of Chronic Fatigue Syndrome (CFS)[1] so the results may not apply to CFS cohorts as usually defined[2].

This definition selects a group covering 2.54% of the adult population[3].

This is much higher than previous estimates of the prevalence of CFS. For example, members of the team in this study have previously estimated the prevalence as 0.235%[4] i.e. the prevalence rate using this definition is 10.8 times the rate found using the more usual CFS definition[2].

There has been some criticism of this new definition[5].

Unlike previous times when the CDC produced definitions for CFS[2,6], the definition used in this study is generally only being used by the CDC-funded CFS research team.

- [1] Reeves WC, Wagner D, Nisenbaum R, Jones JF, Gurbaxani B, Solomon L, Papanicolaou DA, Unger ER, Vernon SD, Heim C: Chronic Fatigue Syndrome A clinically empirical approach to its definition and study. BMC Medicine 2005, 3:19 (15 December 2005)
- [2] Fukuda, K., Straus, S.E., Hickie, I., Sharpe, M.C., Dobbins, J.G., & Komaroff, A. (1994). The chronic fatigue syndrome: A comprehensive approach to its definition and study. Annals of Internal Medicine, 121 (12):953-959. http://www.annals.org/cgi/content/full/121/12/953
- [3] Reeves WC, Jones JF, Maloney E, Heim C, Hoaglin DC, Boneva RS, Morrissey M, Devlin R

Prevalence of chronic fatigue syndrome in metropolitan, urban, and rural Georgia. Population Health Metrics 2007, 5:5 (8 June 2007)

[4] Reyes M, Nisenbaum R, Hoaglin DC, Unger ER, Emmons C, Randall B, Stewart JA, Abbey S, Jones JF, Gantz N, Minden S, Reeves WC: Prevalence and incidence of chronic fatigue syndrome in Wichita, Kansas. Arch Int Med 2003, 163:1530-1536.
[5] Jason Leonard: Issues with CDC Empirical Case Definition and Prevalence of CFS. IACFS website
http://tinyurl.com/2qdgu4 i.e.
http://www.iacfsme.org/IssueswithCDCEmpiricalCaseDefinitionandPrev/tabid/105/Default.aspx
[6] Holmes GP, Kaplan JE, Gantz NM, Komaroff AL, Schonberger LB, Straus SE, et al. Chronic fatigue syndrome: a working case definition. Ann Intern Med. 1988; 108:387-9.
Competing interests

No competing interests

http://www.pophealthmetrics.com/content/5/1/5/comments

### Comments(5)

Prevalence of chronic fatigue syndrome in metropolitan, urban, and rural Georgia

William C Reeves ⋈, James F Jones ⋈, Elizabeth Maloney ⋈, Christine Heim ⋈, David C Hoaglin ⋈, Roumiana S Boneva ⋈, Marjorie Morrissey ⋈and Rebecca Devlin ⋈

Population Health Metrics 2007, 5:5doi:10.1186/1478-7954-5-5

Does the use of the "Role emotional" subscale of the SF-36 help with sensitivity and specificity rates? Can we find out the prevalence rate if this subscale hadn't been used?

**Tom Kindlon** (15 June 2007) Irish ME/CFS Support Group ⊠

It is to be welcomed that attempts are being made to operationalize the CDC (94) CFS criteria [1], enabling easier comparisons between studies and making it easier for researchers to try to replicate findings.

So for example, having some sort of numerical value on a symptom so that one can say whether a symptom is present or not in a patient seems to be a good idea.

However if one is aiming to do this, it would seem preferable to choose methods that have good sensitivity and specificity rates for the condition in question. And it's questionnable whether the methods used in this study have good sensitivity and specificity.

The authors claim that they "used stringent (i.e., <= 25th percentile population norms on any of the 4 SF-36 scales) to define severe functional impairment". One of the SF-36 subscales in question is the "role emotional" subscale. This involves questions such as: "During the past 4 weeks, have you accomplished less than you would like as a result of any emotional problems?"

Does this really capture whether there has been a "substantial reduction in previous levels of .. personal activities"? [Full quote from paper[1]: 1) clinically evaluated, unexplained, persistent or relapsing chronic fatigue that is of new or definite onset [has not been lifelong]; is not the result of ongoing exertion; is not substantially alleviated by rest; and results in substantial reduction in previous levels of occupational, educational, social, or personal activities]

Perhaps the other three sub-scales cover this? For example, a better measure of whether the condition is having an effect on somebody's "personal activities" might be got from using the physical functioning subscales which asks about ability to walk distances, bath or dress oneself, etc. If this score is low, it's likely one's ability to do "personal activities" has been impaired.

Baraniuk[2] used the CDC '94 not operationalized in the same way as this study and found that CFS patients scores did have lower scores on some of the SF-36 subscales - but role emotional was one of the ones that weren't different (the others that weren't different were mental health and general health change).

Would it be possible for the authors to calculate the all important overall prevalence rate if those people who only satisfied this part of the "functional impairment" criteria are excluded? This data would be be useful not just in the US but around the world - countries around the world have been depending on the US to undertake such large scale (and expensive) studies on CFS.

Even before the recent broadening of the criteria, it had been felt by some that the CDC '94 criteria lacked specificity.

For example, Kennedy[3] investigated "patients with self-reported symptoms which developed sporadically (sCFS, n=48); after Gulf War service (GW, n=24); and following exposure to organophosphate insecticides (OP, n=25)" all of whom fulfilled the CDC '94 criteria[1]. Based on their findings, they concluded that "differences in simple, easily performed clinical outcome measurements can be observed between groups of patients, all of whom fulfill

the CDC-1994 criteria for CFS. It is likely that their response to treatment may also vary. The specificity of the CFS case definition should be improved to define more homogeneous groups of patients for the purposes of treatment and research."

Perhaps what is required is a totally new set of criteria?

Tom Kindlon

[1] Fukuda, K., Straus, S.E., Hickie, I., Sharpe, M.C., Dobbins, J.G., & Komaroff, A. (1994). The chronic fatigue syndrome: A comprehensive approach to its definition and study. Annals of Internal Medicine, 121 (12):953-959. http://www.annals.org/cgi/content/full/121/12/953

[2] James N Baraniuk, Begona Casado, Hilda Maibach, Daniel J Clauw, Lewis K Pannell and Sonja Hess S. A chronic fatigue syndrome - related proteome in human cerebrospinal fluid

BMC Neurology 2005, 5:22 doi:10.1186/1471-2377-5-22

http://www.biomedcentral.com/1471-2377/5/22

[3] Kennedy G, Abbot NC, Spence V.A, Underwood C, Belch JJF. The specificity of the CDC-1994 criteria for chronic fatigue syndrome: comparison of health status in three groups of patients who fulfil the criteria. Ann Epidemiol 2004; 14: 95–100.

#### **Competing interests**

No competing interests

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# Does the use of the 'role emotional' subscale of the SF-36 help with sensitivty and specificity rates? Can we find out the prevalence rate if this subscale had not been used?

Sarah LaBelle (18 June 2007) Chicago area CFIDS support group ⊠

This paper presents results long awaited, prevalence of CFS beyond metropolitan areas. The huge difference in the metropolitan area rate of the Georgia study as compared to prior rates based on studies in other metropolitan areas is not well explained. The pre-publication discussion includes comment by the authors that this difference is not important, rather it is important that CFS is not diagnosed by simple physical test measurements.

The prevalence rate of this study is its single most important result. Huge variation needs more exploration of reasons why they occurred, and whether the result is reliable. Inclusion of the 'role emotional' subscale constitutes a substantial change in diagnostic method from prior work by the same lead author. The authors state they are using diagnostic approaches meant to improve the specificity of who is included as CFS, per the CDC 1994 criteria for CFS (1), which intention is applauded. However, 'role emotional' does not relate to any symptom in the listed criteria, directly or indirectly.

This has the effect of straying from the definition, perhaps broadening it, to include many who may be ill, but not with CFS.

The authors are correct in pointing out the difficulty in diagnosis for the purpose of research. The similarity in rate in two studies by different groups of researchers suggest the difficulty can be overcome by stringent application of the best tools at hand to include a person in the group with CFS. As the methods of this study are meant to be used in future studies of CFS, to standardize the study populations among various researchers, it is of great importance that the authors fully explore the effect of the new methods, and alter the methods if shown to decrease specificity.

Computing the prevalence rate without those changes to the criteria may reveal substantial differences in the prevalence rate for this specific disease, and explain the apparent change in rate of CFS. Can this further analysis be conducted, before other papers are published? These data should prove to be a rich vein of valuable information on CFS and the people who suffer from it. Those papers wil not be of much value on this shaky starting ground.

In short, I agree with the comments by Tom Kindlon, in calling for re-analysis of the rate based on these data, with changes to clong more rigidly to the published critieria. A ten-fold difference in prevalence is too large to ignore.

[1] Fukuda, K., Straus, S.E., Hickie, I., Sharpe, M.C., Dobbins, J.G., & Komaroff, A. (1994). The chronic fatigue syndrome: A comprehensive approach to its definition and study. Annals of Internal Medicine, 121 (12):953-959. http://www.annals.org/cgi/content/full/121/12/953

#### **Competing interests**

no competing interests

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### Questioning the use of the Role Emotional (RE) subscale of the SF-36 questionnaire in the diagnosis of CFS

**Tom Kindlon** (19 June 2007) Irish ME/CFS Support Group ⊠

As background to the previous two comments, I thought I'd point out that if people would like to see what makes up the Role Emotional (RE) subscale of the SF-36, a copy of a sample SF-36 questionnaire can be seen at: <a href="http://www.nhlbi.nih.gov/resources/deca/wave/w11.pdf">http://www.nhlbi.nih.gov/resources/deca/wave/w11.pdf</a>.

It is question 6 i.e. 3 questions with only yes or no as possible answers.

The cut off point used in the current study is less than or equal to a score of 66 [1], so two "yes" answers (out of the three questions) is the cut off point for functional impairment.

[Tom: 30th April, 2009: I know now it is actually only one "yes" answer]

Tom Kindlon

[1] Chronic Fatigue Syndrome – A clinically empirical approach to its definition and study.

William C Reeves, Dieter Wagner, Rosane Nisenbaum, James F Jones, Brian Gurbaxani, Laura Solomon, Dimitris A Papanicolaou, Elizabeth R Unger, Suzanne D Vernon and Christine Heim

BMC Medicine 2005, 3:19 doi:10.1186/1741-7015-3-19

<a href="http://www.biomedcentral.com/1741-7015/3/19">http://www.biomedcentral.com/1741-7015/3/19</a>

#### **Competing interests**

No competing interests

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#### Whither Post-exertional Fatigue?

**cort johnson** (21 June 2007) CFS Phoenix ⊠

The Empirical Definition has many positive aspects; better characterization of CFS patients, a way to track treatment efficacy and perhaps identify symptom based subsets and it does appear to identify a very ill population. But does it single out the peculiar condition called CFS. Some aspects of it suggest to me that it does not.

Some researchers have proposed that post-exertional fatigue is a hallmark symptom in CFS. The Canadian Consensus and 1990 Australian definition require post-exertional fatigue to be present for a CFS diagnosis. The Fukuda definition does not; although it is one of eight major symptoms it is not required for a CFS diagnosis. The empirical definition appears to dilute the importance of this symptom further. Some evidence produced by CDC studies and others, however, suggests it is a central component of CFS.

A CDC study examining the symptoms in a wide variety of fatigued groups (prolonged fatigue, chronic fatigue, CFS-like, CFS) found that as the levels of fatigue increased the percentage of people reporting 'unusual fatigue after exercise' did as well (Nisenbaum 2006). That only 1.6% of people with no fatigue reported this symptom indicated it is rarely found in healthy people. (Problems with sleep, muscle and joint pain on the other hand were fairly common (10-20% of healthy people)). About 14% of people with prolonged fatigue and 33% with chronic fatigue reported unusual fatigue after exercise but from there the percentages jumped up markedly; 77 and 74% of CFS-like and CFS patients reported this symptom. This suggests there is a big difference between chronic fatigue patients (fatigued but don't meet 1994 criteria for CFS) on the one hand and CFS-like (met the criteria but didn't undergo the clinical evaluation) and CFS patients (meet the criteria, visited the clinic) with regard to this symptom.

Similarly CDC studies exploring the question of subsets in CFS (Conna et. al. 2006, Aslakson et. al. 2006) found that post-exertional fatigue – was the first and third most important differentiating variable in the PCA and Latent Class Analyses. Its discriminatory prowess was highlighted by the fact that it and concentration difficulties were the only variables not found at all in the Well Group. The very high

levels of post exertional fatigue (78-91%) in the three classes dominated by CFS patients and the low to moderate levels of it (33-41%) in the classes dominated by idiopathic fatigue patients again indicated that this symptom plays a special role in CFS. CFS is often described as being an amalgam of very common symptoms but these studies indicate that post-exertional fatigue is only rarely found even a subset of the population one might expect it to; the BMI matched overweight, obese and even morbidly obese healthy controls in this study who presumably don't exercise much.

Since the 'chronic fatigue' group in the Nisenbaum was the largest fatigued group studied in the Nisenbaum study (PF=575, CF=1085, CFS-like=263, CFS=43) this group will surely account for most of the increase in the prevalence rates under the empirical definition. This indicates that most CFS patients under the empirical definition will not be characterized by 'unusual fatigue after exercise'. This is not in some ways surprising; Dr. White and Jason have pointed out patients can meet the new criteria for CFS simply by reporting they have low activity levels.

A Personal Response: For the first ten years after I got CFS I, who was formerly an avid exerciser, didn't try to do anything more than walk. My symptoms at that point, while very disturbing, were nevertheless mostly not that unusual overall; I was very tired, I couldn't concentrate well, my muscles hurt, I had constant sore throats, I felt out of it, I wasn't strong. Basically I felt like I was shadow of my former self but I was able to get around, I was able to go to school. It probably could have been argued that I had some strange mental condition. Given the lack of information on CFS around that time – mid-1980's, in the back of my mind I wondered if something like that had indeed occurred.

About 10 years into the disease I did something very unusual - I began an exercise program and have tried to do so several times since then. Each time my response was to it has been bizarre. The symptom exacerbation has been immense, not just at the beginning of the exercise program but throughout. Over time I was able to increase my strength and duration. In fact I usually felt good while I was exercising – but the aftermath was always devastating. Starting anywhere from ½ hour to several hours later I could feel that peculiar package of symptoms set in; the stiff, painful muscles, the heart yammering, the uncoordination, the need to lie down, the difficulty thinking or talking, the feelings of irritation. These symptoms would typically peak a day or so later and then slowly subside. It is an utterly strange response to exercise and it is the hallmark symptom of my CFS – it's what convinced me that there was a physiological basis to my problems.

The idea that this vital part of CFS is being subsumed under this new definition suggests that while researchers may uncover important aspects of unwellness by studying this population they may very well have a very difficult time understanding the condition known as CFS.

Aslakson, E., Wollmer-Connar, U. and P. White. 2006. The validity of heterogeneity in chronic unexplained fatigue. Pharmacogenomics 7, 365-373

Conna, U., Aslakson, E. and P. White. 2006. An empirical delineation of the heterogeneity of chronic unexplained fatigue in women. Pharmacogenomics 7, 355-364.

Jason, Leonard. 2007. Problems with the new CDC CFS Prevalence Estimates, IACFS Website.

White, P. 2007. How common is chronic fatigue syndrome; how long is a piece of string? Population Health Metrics 5:6 doi:10.1186/1478-7954-5-6

#### **Competing interests**

none

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### Many possibilities to consider for metropolitan, urban, and rural differences in sex ratio.

Claire C. (15 August 2007) N/A

One of the most interesting and potentially informative findings from this study is the finding that the gender ratio of CFS was strikingly different among metropolitan, urban, and rural populations.

The only suggestion that the authors make regarding this finding is that "The striking differences between female and male rates in the 3 strata may indicate risk effects of gender (a social construct) in distinction to sex (a biologic attribute)."

This is a very interesting suggestion, in light of all the research demonstrating that CFS is a physical disorder with biological markers. We should not fall under the line of thinking that medical observations whose causes are not yet explained are psychological or social constructs, or psychosomatic. This suggestion also assumes that gender constructs are different among metropolitan, urban, and rural populations.

There are many more obvious factors that are different among metropolitan, urban, and rural populations that should be investigated. Namely environmental factors including pollution, exposure to sunlight, microbes, and other things that may be different among metropolitan, urban, and rural populations.

There are many interesting studies which show that other illnesses such as multiple sclerosis have different prevalence rates by geography (latitude), and that asthma and allergies have different prevalence rates between urban and rural children. Could it be possible that the sexes have different levels of biological susceptibility to environmental triggers of some illnesses such as CFS?

#### **Competing interests**

None