Index of ME/CFS Published Research

An A-Z index of the most important published research

31st July 2019

The ME Association
Forward

Welcome to the ME Association Index of Published ME/CFS Research. It is correct to 31st July 2019.

This is an A-Z index of the most important published research studies and selected key documents and articles, listed by subject matter, on myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS).

The Index will be updated at the end of each month and made available in the research section of the ME Association website. Each update will be accompanied by a website blog of that month’s published research abstracts to help keep you informed of the latest research developments.

The Index adopts the subject headings used in the ME Association’s authoritative clinical and research guide which provides a thorough and fully updated review of current clinical knowledge and research evidence.

The guide is written by Dr Charles Shepherd, Hon. Medical Adviser to the ME Association and Dr Abhijit Chaudhuri, consultant neurologist at Queen’s Hospital in Romford.

The 2019 edition can be ordered from our website shop and is priced at £9.00 for UK residents. We are also pleased to be able to offer free copies of this booklet to health professionals.

The ME Association are very grateful to Dr Barbara de Barros, Charlotte Stephens and Russell Fleming, for producing this Index which is proving a very popular and helpful resource.

Help us continue our work

If you would like to support our efforts, then please donate – whatever you can afford – and help us make the UK a better place for people with M.E. Just click the image opposite to visit our JustGiving page:

Or why not join the ME Association as a member and become a part of our growing community? For a monthly (or annual) payment you will also receive our exclusive ME Essential magazine.

Please note: Research published after January 2019 (the date of the latest update to our clinical and research guide) is highlighted in purple in the listing below.
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4.2 Biomarker Landscape Project


4.3 Cardiac Function


Campen CM and Visser FC (2018) The Abnormal Cardiac Index and Stroke Volume Index Changes During a Normal Tilt Table Test in ME/CFS Patients Compared to Healthy Volunteers, are Not Related to Deconditioning, *Journal of Thrombosis and Circulation* 107. Link: https://tinyurl.com/y5nb9dyy


4.4 Exercise physiology/testing


4.5 Gastrointestinal and microbiome


Kenyon J et al. (2019) A Retrospective Outcome Study of 42 Patients with Chronic Fatigue Syndrome, 30 of whom had Irritable Bowel Syndrome. Half were treated with oral approaches, and half were treated with Faecal Microbiome Transplantation. *Human Microbiome Journal* [Epub ahead of print]. Link: [https://tinyurl.com/y2cqxzgf](https://tinyurl.com/y2cqxzgf)


4.6 Gene expression


4.6.1 Epigenetics


4.7 General reviews


4.8 Genetic predisposition


4.9 Immunology


### 4.10 Infection


Asprusten T et al. (2019) EBV-requisitioning physicians’ guess on fatigue state 6 months after acute EBV infection. *BMJ Paediatrics Open* 3 (1). Link: [https://tinyurl.com/y39pwy8r](https://tinyurl.com/y39pwy8r)


4.11 Ion channels


4.12 Metabolomics


Yamano E, et al. (2016) Index markers of chronic fatigue syndrome with dysfunction of TCA and urea cycles. Science Reports doi: 10.1038/srep34990. Link: https://www.nature.com/articles/srep34990
4.13 Miscellaneous


### 4.14 Mitochondria and energy production


Bohne V and Bohne O (2019) Suggested Pathology of Systemic Exertion Intolerance Disease: Impairment of the E3 Subunit or Crossover of Swinging Arms of the E2 Subunit of the Pyruvate Dehydrogenase Complex Decreases Regeneration of Cofactor Dihydrolipoic Acid of the E2 Subunit. *Medical Hypothesis* [Epub ahead of print] Link: [https://tinyurl.com/y6fbud4a](https://tinyurl.com/y6fbud4a)


4.15 Muscle


### 4.16 Neurology: Autonomic nervous system (ANS) dysfunction


Li H, et al. (2014) Autoimmune Basis for Postural Tachycardia Syndrome. *Journal of the American Heart Association* 3: e000755. Link: [http://jaha.ahajournals.org/content/3/1/e000755](http://jaha.ahajournals.org/content/3/1/e000755)


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5. Psychiatry and psychology


Thompson et al. (2019) Cognitive factors are associated with disability and pain, but not fatigue among physiotherapy attendees with persistent pain and fatigue. *Physiotherapy* [Epub ahead of print]. Link: [https://tinyurl.com/yyep9zu8](https://tinyurl.com/yyep9zu8)


6. Sociology


Murray R et al. (2019) Duvet woman versus action man: the gendered aetiology of Chronic Fatigue Syndrome according to English newspapers. Feminist Media Studies. Link: https://tinyurl.com/yyfayo7v


**7. Recommendations, challenges and ideas for future research into ME/CFS**


8. Clinical assessment, symptoms and diagnosis

8.1 General


Nojima N (2019) Paradox of diagnosis: the positive effects and limitations of diagnosis in myalgic encephalomyelitis/chronic fatigue syndrome (me/cfs) and fibromyalgia (fm) sufferers Osaka Human Sciences 5: 55-70. Link: https://tinyurl.com/y3yqn39o


### 8.2 Investigations


8.3 Physical examination


8.4 Symptoms

Pain – see Biomedical Research, 4.21 above.
Post-Exertional Malaise – see Biomedical Research, 4.23 above.
Sleep disturbance – see Biomedical Research, 4.26 above.
Vision – see Biomedical Research, 4.28 above.

9. Management

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11. Vaccinations


12. Children and adolescents


Collin SM, et al. (2015) Chronic fatigue syndrome (CFS) or myalgic encephalomyelitis (ME) is different in children compared to in adults: a study of UK and Dutch clinical cohorts. *BMJ Open* 5(10): e008830. Link: http://bmjopen.bmj.com/content/5/10/e008830


Crawley E and Sterne JAC. (2009) Association between school absence and physical function in paediatric chronic fatigue syndrome/myalgic encephalopathy. *Archives of Disease in Childhood* 94(10): 752-756. Link: http://adc.bmj.com/content/94/10/752.info


Neale FK et al. (2019) Illness duration, mood and symptom impact in adolescents with chronic fatigue syndrome/myalgic encephalomyelitis? *Archives of Disease in Childhood* [Epub ahead of print]. Link: https://adc.bmj.com/content/early/2019/06/13/archdischild-2018-316720.long


Norris T et al. (2017) Natural course of chronic fatigue syndrome/myalgic encephalomyelitis in adolescents. *Archive of Diseases in Childhood* doi: 10.1136/ archdischild-2016-311198. Link: http://adc.bmj.com/content/early/2017/01/19/archdischild-2016-311198


Solomon-Moore E et al. (2019) Physical activity patterns among children and adolescents with mild-to-moderate chronic fatigue syndrome/myalgic encephalomyelitis. *BMJ Paediatrics Open* 3 (1). Link: https://bmjpaedsopen.bmj.com/content/3/1/e000425


### 13. Government Documents

#### 13.1 Disability support


13.2 Economic Cost to the UK


13.3 General Reports, Debates and Statements


House of Commons. (2013) Debate. 11 February col. 517W. Secretary of State re: ME/CFS WHO classification. Link: https://publications.parliament.uk/pa/cm201213/cmhansrd/cm130211/text/130211w0003.htm#13021150000045


14. Healthcare


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