

# A SHORT OVERVIEW ON MCS AND RELATED ILLNESS (ME/CFS, EHS AND FM)

## BREVE PANORAMICA MEDICO LEGALE SU MCS E SINDROMI CORRELATE (ME/CFS, EHS e FM)

Compiled and collected by CNR-MCS Committee  
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### **ABBREVIATIONS / ABBREVIAZIONI**

Note: MCS, FM, EHS, and ME are not somatoform disorders (not classified as in ICD-WHO) or other psychiatric conditions as claimed psychiatrists and chemical-farmaceutical lobbies. See also:

Nota: MCS, FM, EHS, ed ME non sono disordini psicologici somatoformi (non sono così classificati nell'ICD-WHO) o altre condizioni psichiatriche come affermato da psichiatri e lobby chimico-farmaceutiche. Vedi anche:

"THE MENTAL HEALTH MOVEMENT: PERSECUTION OF PATIENTS?" (2003) by Malcolm Hooper PhD Emeritus Professor of Medicinal Chemistry Department of Life Sciences University of Sunderland UK

[http://www.satori-5.co.uk/word\\_articles/me\\_cfs/prof\\_hooper\\_3.html](http://www.satori-5.co.uk/word_articles/me_cfs/prof_hooper_3.html)

"MULTIPLE CHEMICAL SENSITIVITIES UNDER SIEGE" (2001) by Ann McCampbell MD Chair, Multiple Chemical Sensitivities Task Force of New Mexico USA - Townsend Letter for Doctors & Patients

<http://www.getipm.com/personal/mcs-campbell.htm>

<http://www.safer-world.org/it/malathe/MCS/campbell.htm> ITALIAN VERSION

"HOW SHALL WE COPE WITH THE INCREASING AMOUNTS OF AIRBORNE RADIATION?" (2006) Olle Johansson Phd The Experimental Dermatology Unit Department of Neuroscience Karolinska Institute Stockholm Sweden - J. Aust. Coll. Nutr. & Env. Med.

[http://www.buergerwelle.de/pdf/airborn\\_radiation\\_olle\\_johansson\[1\].pdf](http://www.buergerwelle.de/pdf/airborn_radiation_olle_johansson[1].pdf)

**A/N** Author's Note – Nota dell'Autore

**ICD** International Classification of Diseases – Classificazione Internazionale delle Malattie

**EHS** Electromagnetic HyperSensitivity and related synonymous

Ipersensibilità Elettromagnetica e sinonimi correlati

ES Electrical sensitivity – Sensibilità Elettrica

EA Electric Allergy – Allergia Elettrica

See more: [http://www.safer-world.org/e/topics/emr/EMR\\_February.pdf](http://www.safer-world.org/e/topics/emr/EMR_February.pdf)

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**FM** Fibromyalgia – Fibromialgia [**M79.7 ICD-WHO since 1991**]

**IAQ** Indoor Air Quality – Qualità dell’Aria negli Ambienti Confinati

**MCS** Multiple Chemical Sensitivity and related synonymous/terms [**T78.4 Germany ICD-WHO 2001**] - Sensibilità Chimica Multipla e sinonimi correlati

EI Environmental Illness – Malattia Ambientale  
TI Toxic Injury – Danno Tossico  
CI Chemical Injury – Danno Chimico  
ES Environmental Sensitivities – Sensibilità Ambientali  
MCS Multiple Chemical Sensitivities - Sensibilità Chimiche Multiple  
SBS Sick Building Syndrome – Sindrome dell’Edificio Malato  
BRI Building Related Illness – Malattia Correlata all’Edificio  
TILT Toxicant Induced Loss of Tolerance – Perdita della tolleranza immunologica indotta da tossici  
TA Total Allergy – Allergia Totale  
Chemical Hypersensitivity – Ipersensibilità Chimica

**ME** Myalgic Encephalomyelitis or – Encefalomielite Mialgica o [**G93.3 ICD-WHO 1969**]

ME/CFS Myalgic Encephalomyelitis/Chronic Fatigue Syndrome – Encefalomielite Mialgica/Sindrome Fatica Cronica  
ME/ICD-CFS (rare – raro)  
old terminology – vecchie sigle abbandonate  
CFIDS Chronic Fatigue and Immune Dysfunction Syndrome – Sindrome da Affaticamento Cronico e Disfunzione Immunitaria  
CFS Chronic Fatigue Syndrome – Sindrome da Fatica Cronica  
see more <http://www.ahummingbirdsguide.com/misdiagnosis.htm>  
<http://www.cfids-cab.org/MESA/framework.html>

**PSN** National Health Plan – Piano Sanitario Nazionale

**WHO** World Health Organization – Organizzazione Mondiale della Sanità



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## Chapter XIX ICD-10 INTERNATIONAL CLASSIFICATION OF DISEASES

### Injury, poisoning and certain other consequences of external causes (S00-T98)

#### Other and unspecified effects of external causes (T66-T78)

##### T78.4 Allergy, unspecified

*(A/N: In Germany this code is registered as MCS, multiple chemical sensitivity)*

Allergic reaction NOS  
Hypersensitivity NOS  
Idiosyncrasy NOS

**Excludes** allergic reaction NOS to correct medicinal substance  
:  
properly administered ( [T88.7](#) )  
specified types of allergic reaction such as:  
· allergic gastroenteritis and colitis ( [K52.2](#) )  
· dermatitis ( [L23-L25](#) , [L27.-](#) )  
· hay fever ( [J30.1](#) )

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## INTERNATIONAL STATISTICAL CLASSIFICATION OF DISEASES AND RELATED HEALTH PROBLEMS (ICD-10) IN OCCUPATIONAL HEALTH

Antti Karjalainen - Finnish Institute of Occupational Health -World Health Organization Geneva 1999

### 2.2.4 Diffuse and unspecified work-related conditions

**New suspected work-related health problems occur.** Such conditions usually represent a varying mixture of symptoms and diseases (e.g. sick-building syndrome, **multiple chemical sensitivity**, **electricity allergy**). It takes time before there is enough knowledge and experience to set up well-defined diagnostic criteria and to conclude on their etiology. **It is, nevertheless very important for surveillance and other purposes to be able to identify and somehow classify such new problems. According to the general principles of ICD-10, one should try to code as primary diagnosis, the most severe of the diseases or symptoms observed and as secondary diagnosis all other diseases or symptoms observed.**

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WORLD HEALTH ORGANIZATION — WHO/SDE/OEH/99.11 — page 7

INTERNATIONAL STATISTICAL CLASSIFICATION OF DISEASES AND RELATED HEALTH PROBLEMS (ICD-10)

[http://www.who.int/occupational\\_health/publications/en/oehicd10.pdf](http://www.who.int/occupational_health/publications/en/oehicd10.pdf)



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## Chapter XIII ICD-10 WHO

<http://www.who.int/classifications/apps/icd/icd10online/>

### Diseases of the musculoskeletal system and connective tissue (M00-M99)

Soft tissue disorders (M60-M79)	Other soft tissue disorders (M70-M79)
<b>M79</b>	<b>Other soft tissue disorders, not elsewhere classified</b>
	<i>Excludes</i> soft tissue pain, psychogenic ( <a href="#">F45.4</a> ) :
<b>M79.7</b>	<b>Fibromyalgia</b>
	Fibromyositis Fibrositis Myofibrositis

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Fibromyalgia is included in the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems (ICD-10) published by WHO in 1992 as follows:

M79 Other soft tissue disorders, not elsewhere classified  
M79.0 Rheumatism, unspecified  
Fibromyalgia  
Fibrositis

<http://www.who.int/classifications/help/icdfaq/en/index.htm>

## Chapter I ICD-10 WHO

<http://www.who.int/classifications/apps/icd/icd10online/>

### Certain infectious and parasitic diseases (A00-B99)

#### Viral infections of the central nervous system (A80-A89)

**G93** Other disorders of brain  
**G93.3** Postviral fatigue syndrome

Benign myalgic encephalomyelitis



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Source/Fonte: [www.pubmed.com](http://www.pubmed.com) (N/A: bould fonts are not in original document)

*International Journal of Epidemiology* 2004;33 :1-8 DOI: 10.1093/ije/dyh251

## Case-control study of genotypes in multiple chemical sensitivity: CYP2D6, NAT1, NAT2, PON1, PON2 and MTHFR

Gail McKeown-Eyssen<sup>1\*</sup>, Cornelia Baines<sup>2</sup>, David E. C. Cole<sup>3</sup>, Nicole Riley<sup>2</sup>, Rachel F. Tyndale<sup>4</sup>, Lynn Marshall<sup>5</sup>, Vartouhi Jazmaji<sup>2</sup>

<sup>1</sup> Department of Public Health Sciences, University of Toronto, Toronto; Department of Nutritional Sciences, University of Toronto, Toronto

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<sup>5</sup> Environmental Health Clinic Unit, Women's College Hospital Toronto, Toronto; Ambulatory Care Centre, Sunnybrook and Women's College Health Sciences Centre, Toronto

**Conclusions** A genetic predisposition for MCS may involve altered biotransformation of environmental chemicals. The CYP2D6 enzyme activates and inactivates toxins; the NAT2 enzyme bioactivates arylamines to protein-binding metabolites. A gene-gene interaction between CYP2D6 and NAT2 suggested that rapid metabolism for both enzymes may confer substantially elevated risk (OR = 18.7,  $P = 0.002$ ). Our finding parallels others' observation of a link between PON1 heterozygosity and neurological symptoms in Gulf War syndrome. This first demonstration of genetic variation in drug-metabolizing enzymes in association with MCS requires replication.

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Source/Fonte: [www.pubmed.com](http://www.pubmed.com) (N/A: bould fonts are not in original document)

*Psychosomatic medicine* 2005 Mar-Apr;67(2):318-25.

**Symptom profile of multiple chemical sensitivity in actual life.**

Saito M, Kumano H, Yoshiuchi K, Kokubo N, Ohashi K, Yamamoto Y, Shinohara N, Yanagisawa Y, Sakabe K, Miyata M, Ishikawa S, Kuboki T.

Department of Psychosomatic Medicine, Graduate School of Medicine,  
The University of Tokyo, 7-3-1 Hongo, Tokyo 113-8655, Japan.

OBJECTIVE: This study was conducted to confirm the definition of multiple chemical sensitivity (MCS) in actual life: that multiple symptoms are provoked in multiple organs by exposure to, and ameliorated by avoidance of, multiple chemicals at low levels. ... Eighteen patients with MCS, diagnosed according to the 1999 consensus criteria, and 12 healthy controls participated in this study.

CONCLUSIONS: MCS patients do not have either somatic or psychological symptoms under chemical-free conditions, and symptoms may be provoked only when exposed to chemicals.

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Source: Repertorio Atti n. 1292 del 27 settembre 2001

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CONFERENZA STATO REGIONI  
SEDUTA DEL 27 SETTEMBRE 2001

[www.nonsoloaria.com/Leggi%20aria/acc%2027-09-2001.pdf](http://www.nonsoloaria.com/Leggi%20aria/acc%2027-09-2001.pdf)

**MINISTERO DELLA SALUTE**  
DIREZIONE GENERALE DELLA PREVENZIONE

## **Linee Guida per LA TUTELA E LA PROMOZIONE DELLA SALUTE NEGLI AMBIENTI CONFINATI**

...(N/A: **bould fonts are not in original document**)

### **6 - Effetti sulla salute e sul comfort ambientale della IAQ**

...

Un quadro patologico particolare è la "Sindrome da sensibilità chimica multipla o Multiple

Chemical Sensitivity syndrome (M.C.S.)" che comprende una sindrome caratterizzata da reazioni negative dell'organismo a agenti chimici ed ambientali presenti a concentrazioni generalmente tollerate dalla maggioranza dei soggetti....

**TABELLA. 3 - Health for All (HFA) - 2000 dell'OMS, PSN 1998-2000 e Programma nazionale di prevenzione per la tutela e la promozione della salute negli ambienti confinati**

Target del HFA-2000

Obiettivi del PSN 1998 – 2000

10-13 III –

Migliorare il contesto Ambientale

Aree di intervento

Aria interna Miglioramento IAQ.

#### Obiettivi del Progr. di Prev. Indoor

- **Riduzione/abbattimento dell'esposizione della popolazione agli inquinanti (specie bambini, anziani, donne in gravidanza e soggetti a rischio).**
- **Riduzione della morbosità per:**
- **malattie associate agli edifici (B.R.I),**
- **Sindrome da edificio malato (S.B.S),**
- **Sindrome da sensibilità chimica multipla (M.C.S).**
- **Riduzione del rischio tumori.**
- **Azioni specifiche di tipo tecnico e/o normativo su aspetti strutturali, funzionali e di gestione degli edifici.**

#### Azioni del Piano di Prev. Indoor

- **Azioni specifiche per i prodotti chimici di largo consumo, per i prodotti da costruzione e da arredo.**
- **Azioni specifiche per la protezione dei soggetti a rischio.**
- **Informazione e sensibilizzazione della popolazione. Educazione sanitaria.**
- **Formazione dei soggetti che concorrono al progetto di prevenzione (costruttori, produttori, progettisti, impiantisti, medici, etc).**
- **Creazione di un Centro Nazionale di Documentazione Indoor.**
- **Sorveglianza epidemiologica malattie correlate all'inquinamento indoor.**
- **Ricerca.**

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Source: Act Register n. 1292 of 27th September 2001

State Regions Standing Committee (Italy)

27<sup>th</sup> September 2001 Session

[www.nonsoloaria.com/Leggi%20Aria/acc%2027-09-2001.pdf](http://www.nonsoloaria.com/Leggi%20Aria/acc%2027-09-2001.pdf)

## **HEALTH DEPARTMENT (Italy)**

GENERAL OFFICE OF PREVENTION

### **Guide Lines for Protection and Promotion of Indoor Health**

...(N/A: bold fonts are not in original document)

#### **6 – Health effects and IAQ environmental comfort**

...

A special pathological picture is " **Multiple Chemical Sensitivity syndrome or Sindrome da sensibilità chimica multipla (M.C.S.)**" that it includes a syndrome characterized by from negative reactions of the organism to chemical agents and environment which are present in concentrations generally tolerated from the majority of population ...

**CHART 3 - Health for All (HFA) - WHO Plan 2000, PSN 1998-2000 e National Plan of prevention for protection and promotion of health indoor**

HFA-2000 Targets

10-13 III –

Intervention Fields

**Air Indoor Improvement IAQ.**

Indoor Plan Targets

- Reduction people exposures to pollutants ( esp. children, elders, pregnant and people at risk).
- Reduction of incidence for:
  - **Building Related Illnesses (B.R.I),**
  - **Sick Buildind Syndrome (S.B.S),**
  - **Multiple Chemical Syndrome (M.C.S).**
- Reduction of tumor risk.
- **Specific actions (technical and/or normative) on structural, functional and management building contexts.**

Prevention Indoor Plan Actions

- **Specific actions to large consumer chemicals, to building materials and furnitures.**
- **Specific actions for the protection of people at risk**
- Information and awareness of people. Health education.
- Training of preventive plan professionals (contractors, manufactures, draftsmen, installation experts, physicians, etc).
- Create a National Indoor Documentation Centre.
- Epidemiologic surveillance of related indoor pollution diseases.
- Research.

(N/A: These Guide Lines are not enforced in Italy again)

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