

MUS becomes Bodily Stress Syndrome in the ICD-11 for primary care

Results from the WHO
Primary Care Consultation Group on mental health

Marianne Rosendal

Research Unit for General Practice
Institute of Public Health
University of Southern Denmark, Odense

















OUTLINE

- Classification systems and MUS
- WHO working process
- New proposal for the ICD-11
 - Evidence
 - Field trials
- Discussion and challenges

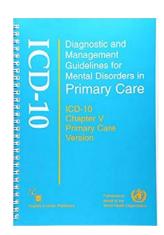




Classification systems

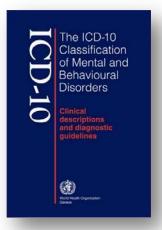
Primary care

- ICD-PC
 - ICD-PC mental disorders
- ICPC
- Read codes
- (ICF)
-



Secondary care

- ICD
- DSM
- Snomed-CT (terminology)
-







ICD-10-PC chapter V **Functional Disorders**

Dissociative (conversion) disorder F44

F45 **Unexplained somatic complaints**







Features of unexplained somatic complaints

- Various many physical symptoms without a physical explanation (a full history and physical examination are necessary to determine this)
- Frequent medical visits in spite of negative investigations
- Some patients may be primarily concerned with obtaining relief from physical symptoms. Others may be worried about having a physical illness and be unable to believe that no physical condition is present (hypochondriasis).
- Symptoms of depression and anxiety are common





Classification ICD-10 – chapter V/F

Somatoform disorders

Physical symptoms and persistent requests for medical investigations, in spite of negative findings and reassurance

Duration > 6 months

- F45.0 Somatization disorder (>2 years)
- F45.1 Undifferentiated somatoform disorder
- F45.2 Hypochondriacal disorder
- F45.3 Somatoform autonomic dysfunction
- F45.4 Persisting somatoform pain disorder
- F45.8 Other somatoform disorders
- F45.9 Somatoform disorder, unspecified

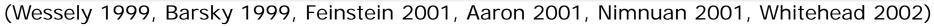
Neurastenia Dissociative disorder





Classification ICD-10

Irritable bowel syndrome (IBS), non-ulcer dyspepsia				
Pelvic arthropathy, premenstrual syndrome, chronic pelvic pain				
Fibromyalgia, chronic lower back pain				
Atypical or non-cardiac chest pain				
Hyperventilation syndrome				
Chronic fatigue syndrome (CFS, ME)				
Tension headache, pseudo-epileptic seizure				
Temporomandibular joint dysfunction, atypical facial pain				
Globus syndrome				
Multiple chemical sensitivity (MCS)				
WAD - whiplash associated disorder				
Chronic benign pain syndrome				







Problems with the ICD-10 criteria

- Diagnoses based on the exclusion of organic disease
- Developed in highly selected patient populations
- 'Somatoform Disorder' only includes illness of at least 6 months' duration (in ICD-10)
- Competing parallel diagnoses
- GPs are reluctant to use the diagnosis SD (fear of stigmatisation, fear of misclassification)
- GPs do not agree on the concept

(Rosendal 2007, Fink 2008, Rask 2016)

















The WHO

THE ICD-11 PRIMARY CARE CONSULTATION GROUP ON MENTAL HEALTH





International Advisory Group for the Revision of ICD-10 Mental and Behavioural Disorders

- Chairs
 - David Goldberg, UK
 - Geoffrey Reed, WHO
 - Michael Klinkman, US
- Primary care
 - Anthony Dowell, N.Z.
 - Marianne Rosendal, DK
 - Tai Pong Lam, Hong Kong
 - (Gloria Thupayagale-Tshweneagae, Botswana)

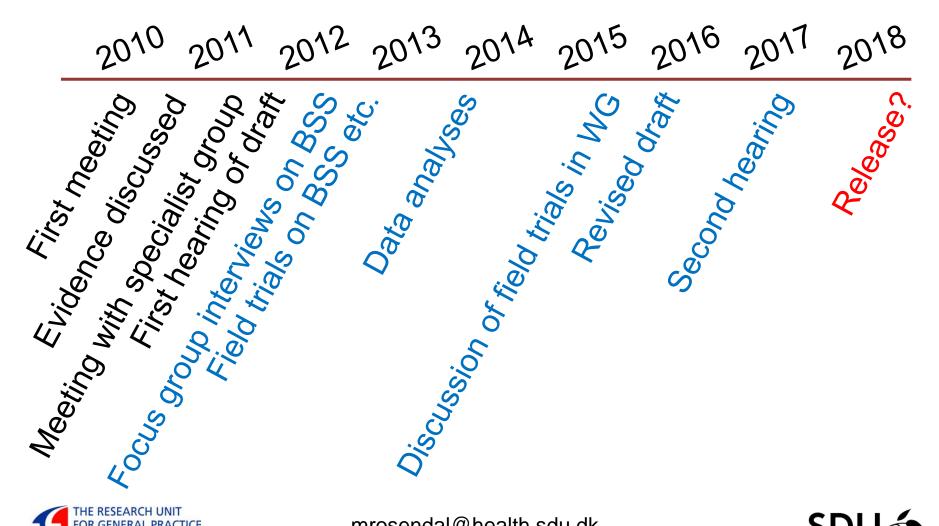
- Psychiatrists
 - Sandra Fortes, Brazil
 - Linda Gask, UK
 - Kuruthukulangara S.
 Jacob, India
 - Joseph K. Mbatia, Tanzania
 - Fareed Aslam Minhas, Pakistan

8 specialist groups on the ICD-11 mental disorders





WHO timeline for new proposals



















"MUS" becomes "BSS"

EVIDENCE





Degree of specialisation Primary care

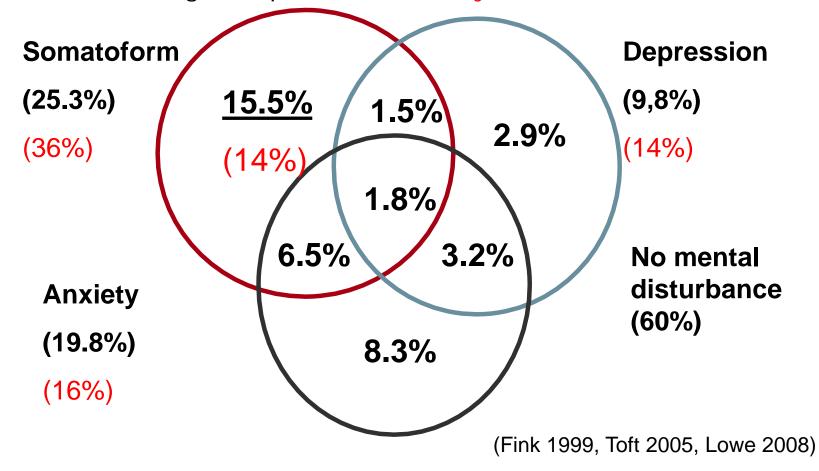
→ mental health care **Bodily** Self-limiting **Functional** Persistent III sensations disorders symptoms symptoms Trials on prevention and treatment





Co-morbidity in psychiatry

Medical and neurological inpatients / Primary care







The Aarhus study

- Patient population Central Denmark Region
 - Primary care, n=1785
 - Neurological department, n=198
 - Medical department, n=294
- Procedures
 - Consecutive inclusion of patients
 - 978 selected for interview (SCAN)
 - 76 physical symptoms explored and rated by trained interviewers (psychiatrists)
 - Principal component factor analysis of 62 most frequent symptoms
 - Latent class analyses





Physical symptoms – clusters

Cardiopulmonary/ autonomic symptoms Musculoskeletal symptoms

- 1. Palpitation / heart pounding
- 2. Precordial discomfort
- 3. Breathlessness without exertion
- 4. Hyperventilation
- 5. Hot or cold sweats
- 6. Dry mouth

- 1. Pains in arms or legs
- 2. Muscular aches or pains
- 3. Pains in the joints
- 4. Feeling of paresis/ localized weakness
- 5. Backache
- 6. Pain moving from one place to another
- 7. Unpleasant numbness/ tingling sensation

Gastrointestinal symptoms

- 1. Abdominal pains
- 2. Frequent loose bowel movements
- 3. Diarrhoea
- 4. Feeling bloated/full of gas/distended
- 5. Nausea
- 6. Regurgitations
- 7. Burning sensation in chest/ epigastrium

General symptoms

- 1. Concentration difficulties
- 2. Excessive fatigue
- 3. Headache
- 4. Impairment of memory
- 5. Dizziness

(Fink 2007, Kato, 2010, Rosmalen 2010)





Physic

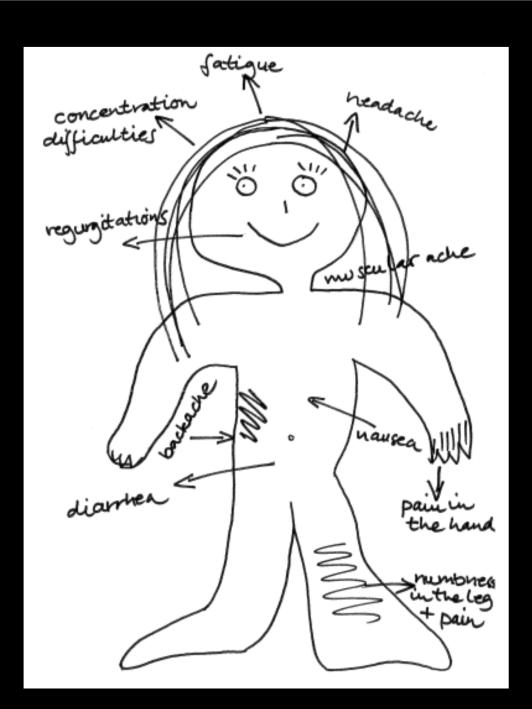
Cardiopulmona

- 1. Palpitation / h
- 2. Precordial dis
- 3. Breathlessne
- 4. Hyperventilat
- Hot or cold sv
- 6. Dry mouth

Gastrointestina

- 1. Abdominal pa
- 2. Frequent loos
- 3. Diarrhoea
- 4. Feeling bloat
- 5. Nausea
- 6. Regurgitation
- 7. Burning sens epigastrium





ms

ized weakness

lace to another tingling

5

Rosmalen 2010)



Clinical diagnosis: Bodily distress syndrome

Symptom groups

- ≥ 3 cardio-respiratory /autonomic arousal
- ≥ 3 gastro-intestinal arousal
- ≥ 3 musculoskeletal tension
- ≥ 3 general symptoms

- 1) Palpitations
- 2) Precordial discomfort
- 3) Breathlessness without exertion
- 4) Hyperventilation
- 5) Hot or cold sweats
- 6) Dry mouth
- 1) Fatigue
- 2) Headache
- 3) Impaired memory
- 4) Concentration difficulties
- 5) Dizziness

(Fink 2007)





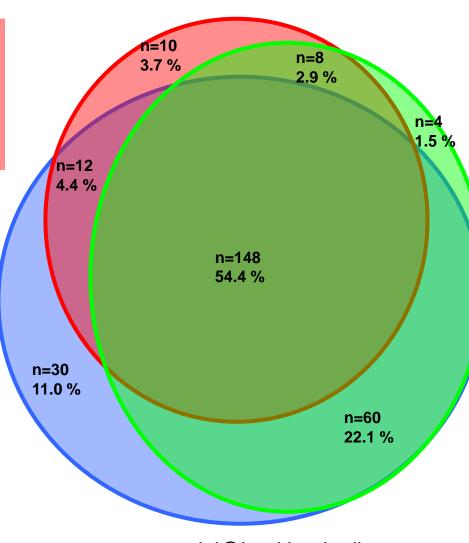
BDS captures functional syndromes

Any Somatoform disorder, n=178

Prevalence 11.2 [9.1-13.6]

Bodily distress syndrome, n=250

Prevalence 15.7 [13.2-18.6]



Any functional somatic syndrome (fibromyalgia, CFS, hyperventilation syndrome, IBS, noncardiac chest pain, pain syndrome) n=220
Prevalence 14.2
[11.8-17.0]

Population N=2277

(Fink 2010)





mrosendal@health.sdu.dk

BDS in primary care – confirmed

Cross sectional study 2008-2010

(Budtz-Lilly, 2016)

- Population Central Denmark Region
 - 404 GP participants
 - Face-to-face contacts, adults (N= 4162)
 - Response 58% (n=2475) on questionnaire
- Results BDS:
 - Symptom clusters confirmed
 - Prevalence 17%
 - SF-12, Physical Component Summary: 33.6 (SD 10.1)
 - SF-12, Mental Component Summary: 39.1 (SD 11.2)

















MUS becomes Bodily Stress Syndrome

PROPOSAL AND FIELD TRIALS





Bodily Stress Syndrome – BSSproposal

- At least 3 persistent symptoms over time attributable to autonomic over-arousal (cardio-respiratory, gastrointestinal, musculoskeletal) or as general symptoms of tiredness and exhaustion
- Patient's concern over health expresses itself as excessive time and energy devoted to these symptoms
- Symptoms are distressing and result in significant disability
- Exclusion:
 - Those with anxiety or depression at case level should not be diagnosed as BSS, but sub-threshold anxious depression may be present.
 - If the symptoms are accounted for by a known physical disease this is not BSS





ICD-11-PC vs. ICD-10

Bodily Stress syndrome

- CP arousal
- GI arousal
- Musculoskeletal tension
- Generel distress symptoms

Health preoccupation

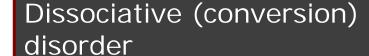
Functional somatic syndromes

Neurasthenia

Somatoform disorders

- Somatization disorder
- Undifferentiated SD
- Pain disorder
- Neurastenia
- Somatoform autonomic dysfunction
- Hypochondriasis
- NOS

Dissociative disorder







Field trials - publications

- 1) Lam TP, Goldberg DP et al: Proposed new diagnoses of anxious depression and bodily stress syndrome in ICD-11-PHC: an international focus group study (Fam Pract. 2013)
- Goldberg DP, Reed GM et al: Multiple somatic symptoms in primary care: A field study for ICD-11 PHC, WHO's revised classification of mental disorders in primary care settings (J Psychosom Res. 2016)
- Goldberg DP, Lam TP et al: Primary care physicians' use of the proposed classification of common mental disorders for ICD-11 (Fam Pract 2017)
- 4) Goldberg DP, Reed GM et al: Screening for anxiety, depression, and anxious depression in primary care: A field study for ICD-11 PHC (Journal of affective disorders, 2017)





Field trial: Focus group interviews

- 9 groups, 4-15 participants, 2011
- 7 locations: Austria, Brazil, Hong Kong, New Zealand, Pakistan, Tanzania and United Kingdom.
- BSS considered a better term than MUS
- Disagreements about the number of symptoms required
- Symptom categories provided a basis for useful explanations





Field trial: cross sectional study

- 5 countries: Hong Kong, Pakistan, Spain, Mexico, Brazil
- 587 patients
- Selective inclusion by PCP (BSS or HA)
- Followed by standardised psychiatric interview (CIS-R)
- 81% female
- 70.4% had both BSS and HA
- Average of 11 somatic symptoms





PCP diagnoses

	Brazil (n=55)	China (n=74)	Mexico (n=175)	Pakistan (n=214)	Spain (n=69)	All (n=587)
Health Anxiety only	1 1.8%	11 14.9%	15 8.6%	0	2 2.9%	29 4.9%
95% Confidence Interval	-1.8 - 5.4	6.7 - 23.0	4.4 - 12.7		-1.1 - 6.9	3.2 - 6.7
BSS only	33 60.0%	32 43.2%	32 18.3%	33 15.4%	15 21.7%	145 24.7%
95% Confidence Interval	46.9-73.1	31.9-54.6	12.5-24.0	10.6-20.3	11.9-31.6	21.2-28.2
BSS and Health	21	31	128	181	52	413
Anxiety	38.2%	41.9%	73.1%	84.6%	75.4%	70.4%
95% Confidence Interval	25.2-51.2	30.6-53.2	66.5-79.7	79.7-89.4	65.1-85.6	66.7-74.1

78.9% [75.6–82.2] with BSS/HA comorbid mood or anxiety disorder

Except China: 45.9% [34.5-57.4]





Symptom patterns in BSS

	All countries		
	N, %	95% CI	
Diffuse symptoms	98, 17.6%	14.4 - 20.7	
Single symptom cluster	137, 24.6%	21.0 - 28.1	
Multiple symptom clusters	323, 57.9%	53.8 - 62.0	





Key points



- Criteria for BSS proposed and in final hearing
- BSS stays in chapter about mental health
- The new criteria found useful in PC
- Quantitative results differ between countries
- Results about comorbidity and symptom patterns differ from original (rigorous) trials





Discussion / challenges

- Conservative approach once mental always…
- Proposal as a mix of evidence and GOBSAT
- Field trials are methodologically weak
- Must cover worldwide
 - Differences between countries?
 - Evidence for whom?
- Specialist groups at odds with criteria in primary care
- What will be released by the WHO?

















THANK YOU FOR LISTENING!



