

Physiotherapy Management of Functional Disorders

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Aims

- To define functional disorders in a therapy and rehabilitation context
- To describe general treatment principles with reference to published literature
- To describe practical examples of treatment based on experience
- To demonstrate a need for therapy in functional disorders

Functional Disorders

- Common (Stone et al 2005)
- Costly
 - Greater health utilisation
 - Total cost estimated £18 Billion (Chitnis 2011)
- Worthy of treatment
 - In need of help
 - Often lack of support, not taken seriously
 - High disability and distress (Stone 2009)
 - At risk of iatrogenic harm from unnecessary surgeries etc

Continuum of control

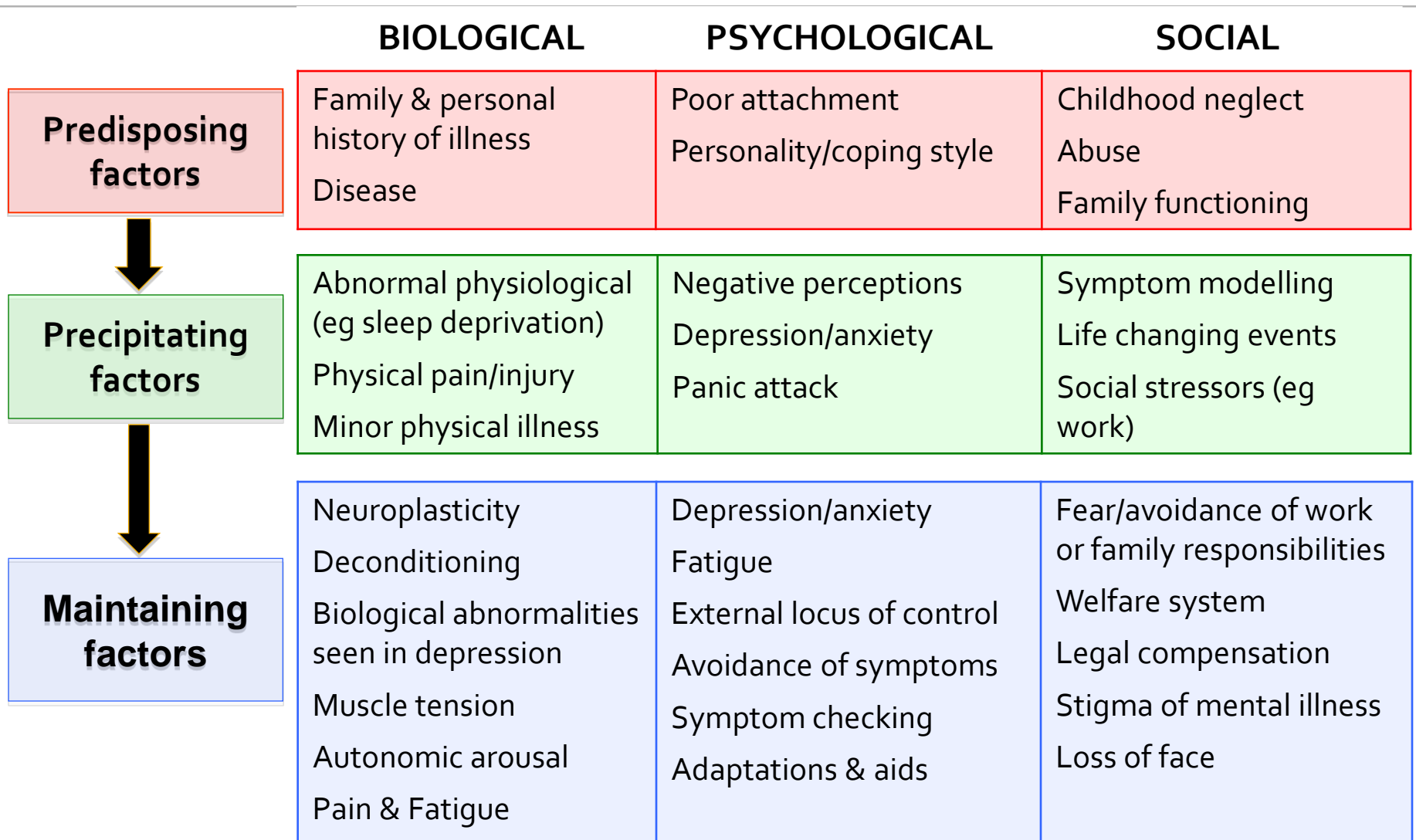
- Somatisation is distinct from malingering and factitious disorders
- Inconsistency does not equal faking (Stone 2009; Teasell 2002)
- Control may be thought of as on a continuum where thoughts and behaviours affect symptoms

Malingering ←————→ Absence of control

- Over emphasis of symptoms in order to be taken seriously (Chitnis et al 2011)
- Distinguishing between malingering and somatisation is not always possible (Stone et al 2005)

Aetiology

(Adapted from Stone et al 2005)



Hughlings Jackson Ward

MDT Inpatient Rehabilitation Programme at NHNN

■ The team

- Neuro-Psychiatrists
- Neurologist
- Mental Health Nurses
- Therapists – CBT, OT, SLT, Physio & RA

■ Four week programme

■ Goal focussed rehabilitation

- Weekly patient focused MDT goal setting & timetabling
- Weekly ward round + team meeting

■ Patients selected for programme at MDT clinic



Principles of Treatment

- Combined physical and behavioural approach
- Communication
- Establish detailed treatment contract early on
- Functional focus
- Goal setting
- Consistent approach
- Be aware of patients suggestibility
- Involvement of family
- Praise positive behaviours, ignore negative
- Patience – expect ups and downs

Initial Assessment

- Detailed and specific
 - Acknowledge and validate suffering
 - Summarise
- Start by clarifying patients understanding of diagnosis
- Bleed the symptoms dry
- Timeline of symptoms
- 24 hour routine
- Social History
- Impairment vs Functional assessment
- Establish the patients priorities and goals

Physiotherapy Management

- Treatment – set boundaries
 - Agree on number frequency and length of sessions
- Education
 - Facilitate patients understanding
 - If no psychological acceptance – “work on the changeable”
 - Normalise & reassure while recognising disability
 - Provide expectation of recovery
 - Provide rationale for treatment
 - Identify and challenge unhelpful thoughts & behaviours

Physiotherapy

- Correct abnormal movement patterns
- Address pain – See Hansen et al 2010
- Address fatigue
- Exercise nonspecific strengthening and CV (Dufour 2010)
- Equipment – often a point of contention. Avoid issuing, agree on plan to wean
- Practice strategies to control symptoms
- Relapse prevention
- 6-12 month plan with long term goal
- Discharge planning & Handing over

Outcome Measures

- Visual Analogue Scale (VAS)
- Canadian Occupational Performance Measure (COPM)
- Function Impairment Measure (FIM)
- Goal Attainment
- Gait and Balance measures
- Back pain scales – eg Roland-Morris Disability Questionnaire
- Fatigue Impact Scale
- Video
- Quality of life measures (GHQ)
- Others... Functional OCM's more useful than impairment based

Evidence for Physiotherapy

- No RCT's
- Expert opinion – a combined physical, behavioural and psychological approach is effective
(Stone et al 2005; Chitnis 2011; Smith 2007)
- Case Reports
(Duck et al 2005; Ness 2007; Hughes & Alltree 1990; Withrington & Parry 1985)
- Assessment of MDT rehab programme
(Moene 2002; Speed 1996)
- Difficulties with research
 - Heterogeneous population (Mai 2004)
 - Different treatment approaches
 - Question the literature! Is this right for my patient??

The patient who does not get better

- A certain percentage of patients will not improve – predicting can be difficult (Stone 2009)
- Stick to your treatment contract (Heruti 2002)
- Preserve therapeutic relationship (Stone 2005)
- Maximise independence
- Minimise secondary changes and harm
- “Do I give them a wheelchair?”

Managing Non-epileptic Attacks (NEA)

- Role of physiotherapy will vary
 - Addressing other functional symptoms – present in up 90% of cases
 - Facilitate understanding of diagnosis
 - Address avoidance behaviour – Increase function, graded exposure
 - Facilitate internal locus of control – pts with NEA report more external LOC than epilepsy
- Techniques to avoid NEA
 - Distraction & suggestion
 - Grounding techniques
- Dealing with a NEA
 - Try to appear unconcerned
 - “Its ok, you are safe, we will continue when you are able”
 - Avoid positive reinforcement

Managing Functional Tremors

- Realistic expectations
 - 27% improved (12% of these following treatment) (McKeon 2009)
 - Positive indicators: presence of anxiety, medication.
- Characteristics (McKeon 2009; Jankovic 2006)
 - Distractibility: 60-73%
 - Variability: 62%
 - Entrainment: 8-18% of cases
- Management
 - Normalise – practiced movement, anxiety & stress, rationale for Rx
 - Explore the effect of positions and postures
 - Explore the effect of entrainment, distraction and relaxation
- Develop management strategies based on above and discuss rationale for your intervention

Case Study – Functional Gait Disorder

Mrs A

- HPC
 - 2007 – Fatigue
 - 2008 – Back pain with p&n's
 - 2008 – Hospitalised for chest infection & developed LL paralysis
 - 3 months rehabilitation & community input
 - 20010 – Referred to NHNN MDT programme for conversion disorder

- Social Hx
 - Difficult first marriage
 - Current social issues at home

- Predisposing factors – previous experiences
- Precipitating factors – social stressors (work and family) & illness
- Maintaining factors – pain, fatigue, carers, sickness benefits, relationships, self esteem, aids & equipment

Gait on admission

video

Case Study – Functional Gait Disorder

Mrs A

- Problem List
 - Ataxic gait
 - Dependent on walking frame
 - Difficulty dressing
 - Dependent on carers for ADLs
 - Fatigue
 - Low back pain
 - Dizziness
 - Anxiety
 - Secondary muscle changes
 - Agoraphobia

Case Study – Functional Gait Disorder

Treatment

- **Neurologist**
 - Exclusion of organic illness prior to admission
 - Introduce idea of psychological cause
- **Psychiatrist**
 - Rationalise meds, pharmaceutical Mx of anxiety & depression
 - Expand on psychological nature of symptoms & oversee treatment
- **CBT**
 - Cognitive formulation
 - Cognitive restructuring
 - Addressing agoraphobia and anxiety
- **OT**
 - Fatigue management - education, planning, pacing
 - ADLs – washing, dressing, kitchen activities
 - Self esteem – Grooming, personal attention
 - Vocational Ed – advice and planning

Case Study – Functional Gait Disorder

Physiotherapy

- **Education – challenging illness beliefs**
- **Chronic pain management**
- Practice components of gait
- Body alignment & feedback using mirror
- Stretching programme for tight muscles
- Avoid practicing poor movement patterns
- Wean from walking aids
- Increase exercise tolerance
- Outdoor mobility & stairs
- Addressing aches & pains from increased activity

Case Study – Functional Gait Disorder

Outcome

video

Summary

- FD's are complex!!
- Maintain boundaries, stick to contract, preserve relationship
- Have realistic expectations
- These patients are worthy of your time
- Therapy input can
 - Be cost effective
 - Produce impressive results
 - Rewarding

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Information aimed at patients
- Stone J et al (2005) Functional symptoms and signs in neurology: Assessment and diagnosis / Management. Journal of Neurology Neurosurgery and Psychiatry. 76(Suppl) i2-i21

References

- Brazier DK and Venning HE (1997) Clinical Practice Review: Conversion disorders in adolescents: A practical approach to rehabilitation. *British Journal of Rheumatology* 36: 594-598.
- Chitnis A, Dowrick C, Byng R, Turner P and Shiers D (2011) Guidance for health professionals on medically unexplained symptoms. National Mental Health Development Unit. [<http://nmhdu.org.uk/resources/>] Accessed 5/02/2011.
- Duck Won Oh et al (2005) Case report: Physiotherapy strategies for a patient with conversion disorder presenting abnormal gait. *Physiotherapy Research International*. 10(3)164-168.
- Dufour N et al (2010) Treatment of chronic low back pain: A randomised, clinical trial comparing group based multidisciplinary biopsychosocial rehabilitation and intensive individual therapist assisted back muscle strengthening exercises. *Spine* 35 (5) 469-476.
- Hansen Z et al (2010) A cognitive behaviour programme for the management of low back pain in primary care: A description and justification of the intervention used in the Back Skills Training Trial. *Physiotherapy* 96. 87-94.
- Heruti RJ et al (2002) Conversion motor paralysis disorder: Overview and rehabilitation model. *Spinal Cord* 40:327-334.
- Hughes S & Alltree (1990) A behaviour approach to the management of functional disorders. *Physiotherapy*. 76(4):255-258.

References

- Jankovic J, Dat Vung K and Thomas M (2006) Psychogenic Tremor: Long-term Outcome. *CNS Spectr.* 11(7): 501-508.
- McKeon A et al (2009) Psychogenic Tremor: Long term prognosis in patients with electrophysiologically confirmed disease. *Movement Disorders.* 24(1):72-76.
- Mai F (2004) Somatization disorder: A practical review. *Canadian Journal of Psychiatry* 49(10):652-661.
- Moene FC et al (2002) A randomised controlled clinical trial on the additional effect of hypnosis in a comprehensive treatment programme for in-patients with conversion disorder of the motor type. *Psychotherapy and Psychosomatics.*71:66-76.
- Ness D (2007) Physical therapy management for conversion disorder: case series. *Journal of Neurologic Physical Therapy.* 31. 30-39.
- Silver F (1996) Management of conversion disorder. *Physical Medicine and Rehabilitation.* April:75(2)134-140
- Smith HE (2007) Evaluation of neurologic deficit without apparent cause: The importance of a multidisciplinary approach. *The Journal of Spinal Cord Medicine.* 30(5): 509-517.
- Speed J (1996) Behavioural management of conversion disorder: Retrospective study. *Archives of Physical Medicine and Rehabilitation.* 77 147-154.
- Stone J (2009) Functional symptoms in neurology. *Neurology in Practice.* 9:179-189

References

- Stone J, Carson A and Sharpe M (2005) Functional symptoms and signs in Neurology: Assessment and Diagnosis. *Journal of Neurology and Neurosurgery Psychiatry*. 76(1) i2-i12
- Stone J, Carson A and Sharpe M (2005) Functional Symptoms in Neurology: Management. *Journal of Neurosurgery and Psychiatry* 76(1) i13-i21
- Mai F (2004) Somatization disorder: A practical review. *Canadian Journal of Psychiatry* 49(10):652-661.
- Moene FC et al (2002) A randomised controlled clinical trial on the additional effect of hypnosis in a comprehensive treatment programme for in-patients with conversion disorder of the motor type. *Psychotherapy and Psychosomatics*.71:66-76.
- Mai F (2004) Somatization disorder: A practical review. *Canadian Journal of Psychiatry* 49(10):652-661.
- Moene FC et al (2002) A randomised controlled clinical trial on the additional effect of hypnosis in a comprehensive treatment programme for in-patients with conversion disorder of the motor type. *Psychotherapy and Psychosomatics*.71:66-76.