

# Poverty, pathology and pills



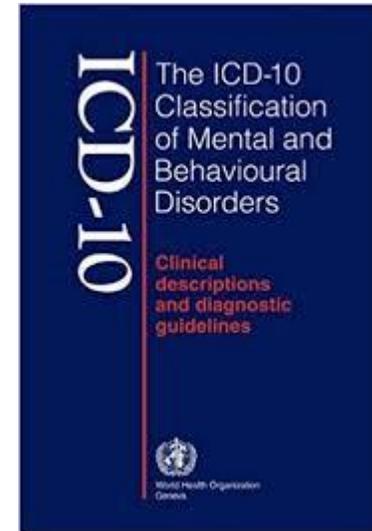
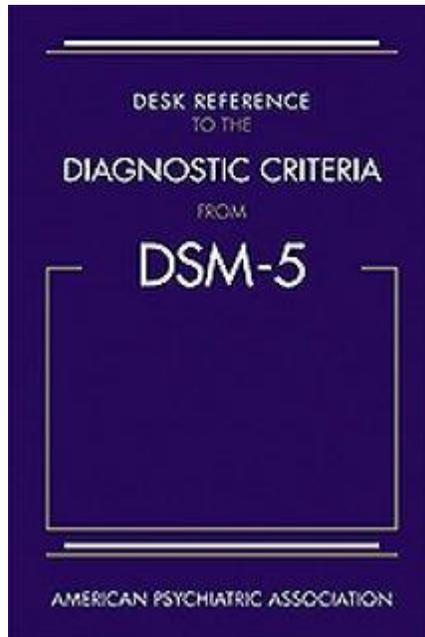
15<sup>th</sup>-16<sup>th</sup> January 2019, London



Understanding what diagnosis in  
mental health really is, and what  
treatments really do!

Joanna Moncrieff, Destress conference, January 2019

# Diagnosing mental health problems



# ICD 10 depression criteria:

**Table 1 - Diagnostic criterion of depressive episode according to the ICD-10<sup>\*45</sup>**

<b>Main symptoms</b>
1. Depressed mood
2. Loss of interest
3. Fatigability

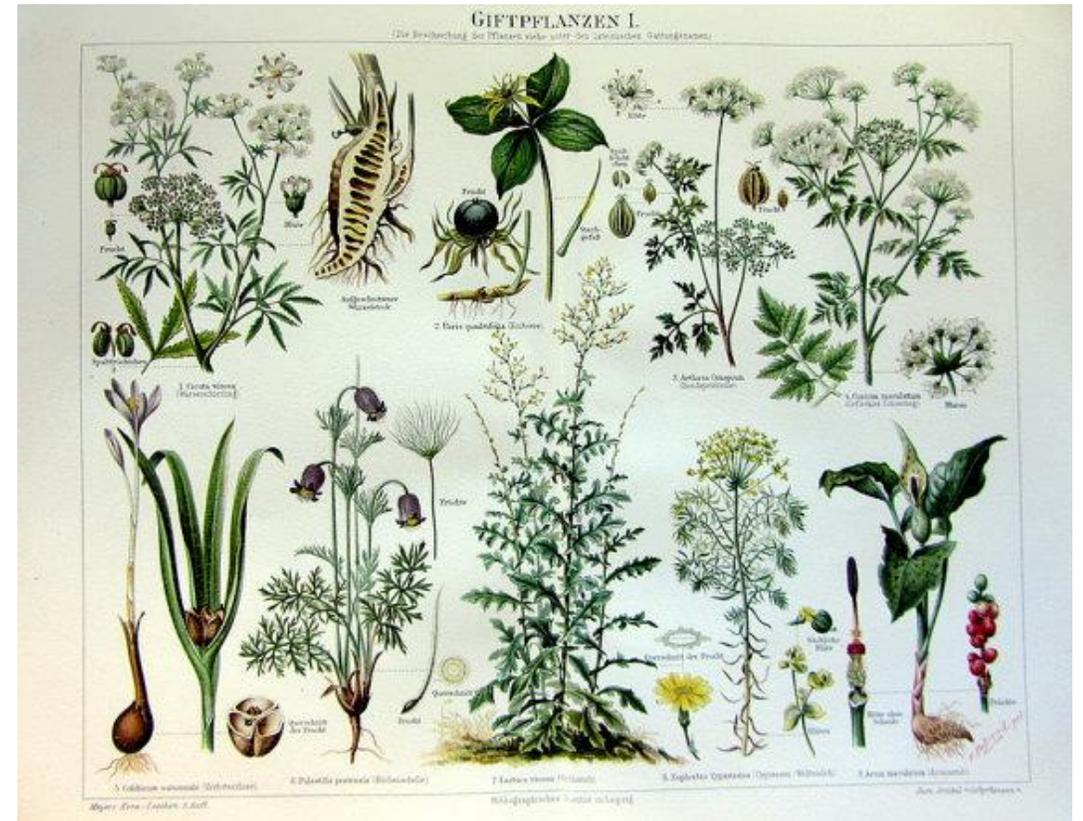
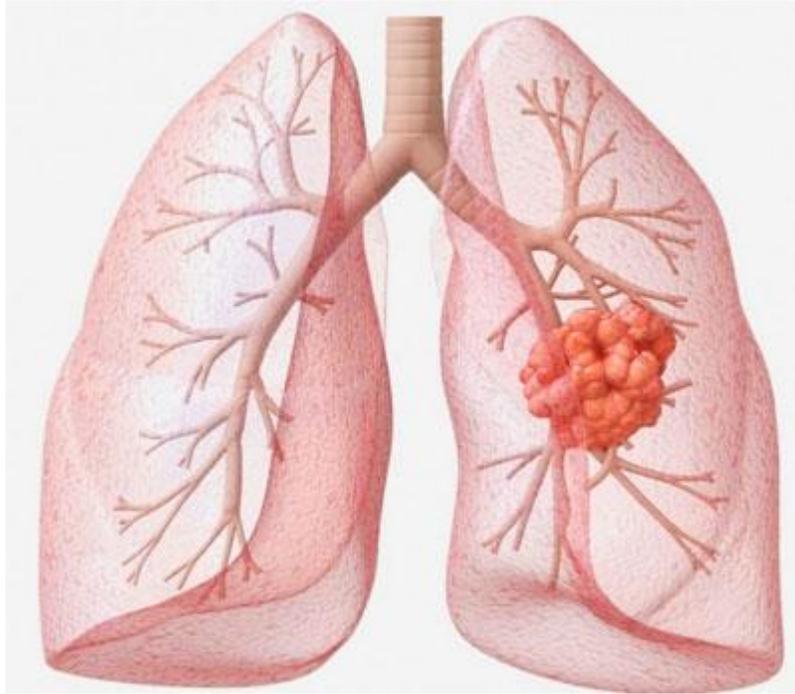
<b>Accessory symptoms</b>
1. Reduced concentration and attention
2. Reduced self-esteem and self-confidence
3. Ideas of guilt and unworthiness
4. Bleak and pessimistic views of the future
5. Disturbed sleep
6. Diminished appetite

*\* Mild episode: 2 fundamental + 2 accessory symptoms*

*Moderate episode: 2 fundamental + 3 to 4 accessory symptoms*

*Severed episode: 3 fundamental + > 4 accessory symptoms*

# Diagnosis vs classification



# Diagnosis in medicine

- Diagnosis indicates the presence of a specific biological abnormality that produces symptoms and signs
- Everyone with a particular diagnosis has the same underlying biological abnormality
- The outcome for everyone with a particular diagnosis will fall within a range of outcomes determined by the nature of the biological process.
- Effective treatments will act on the biological basis of the condition.
- Not all medical terms are diagnoses, some are classifications, some mixed e.g. epilepsy; rash

# Psychiatric diagnosis is tautological

- Criteria consisting of certain behaviours or experiences equate to the diagnosis
- The 'diagnosis' indicates the same behaviour and experiences that define it
- There is an implication of an underlying mechanism but it plays no part in the diagnostic process

# Is depression a disease?

## Evidence for a 'chemical imbalance'

- Serotonin and noradrenalin abnormalities have been proposed (monoamine theories of depression)
- Independent evidence of serotonin or noradrenalin function in depression is highly contradictory
- No specific abnormalities linked with depression have been consistently found

# Serotonin 1A receptor studies

- Lower levels in depressed people compared to 'normals' (Drevets et al, 1999; Sargent et al, 2000)
- Higher levels (Parsey et al, 2006; Reivich et al, 2004)
- No difference (Meyer et al, 2009; Parsey et al, 2006)
- Suicide victims: also inconsistent (Lowther et al, 1997; Matsubara et al, 1991; Stockmeier et al, 1997)

# Serotonin depletion studies

- Tryptophan depletion: does not produce depression in volunteers (Murphy et al, 2002). Some studies show depression in people previously treated for depression with SSRIs (Delgado et al, 1999)
- Parachlorophenylalanine studies: reduced serotonin associated with insomnia, aggression, hypersexual behaviour, irritability, hypersensitivity to the environment, paranoia (Mendels and Frazer, 1974)

*"Groundbreaking ... the first time  
depression is not only a disorder of the mind  
of the brain, it is a disorder of the whole body."  
—Thomas Insel, MD, Director, National Institute of Mental Health*

# THE INFLAMED MIND

*A new way of thinking  
about depression*

EDWARD BULLMORE

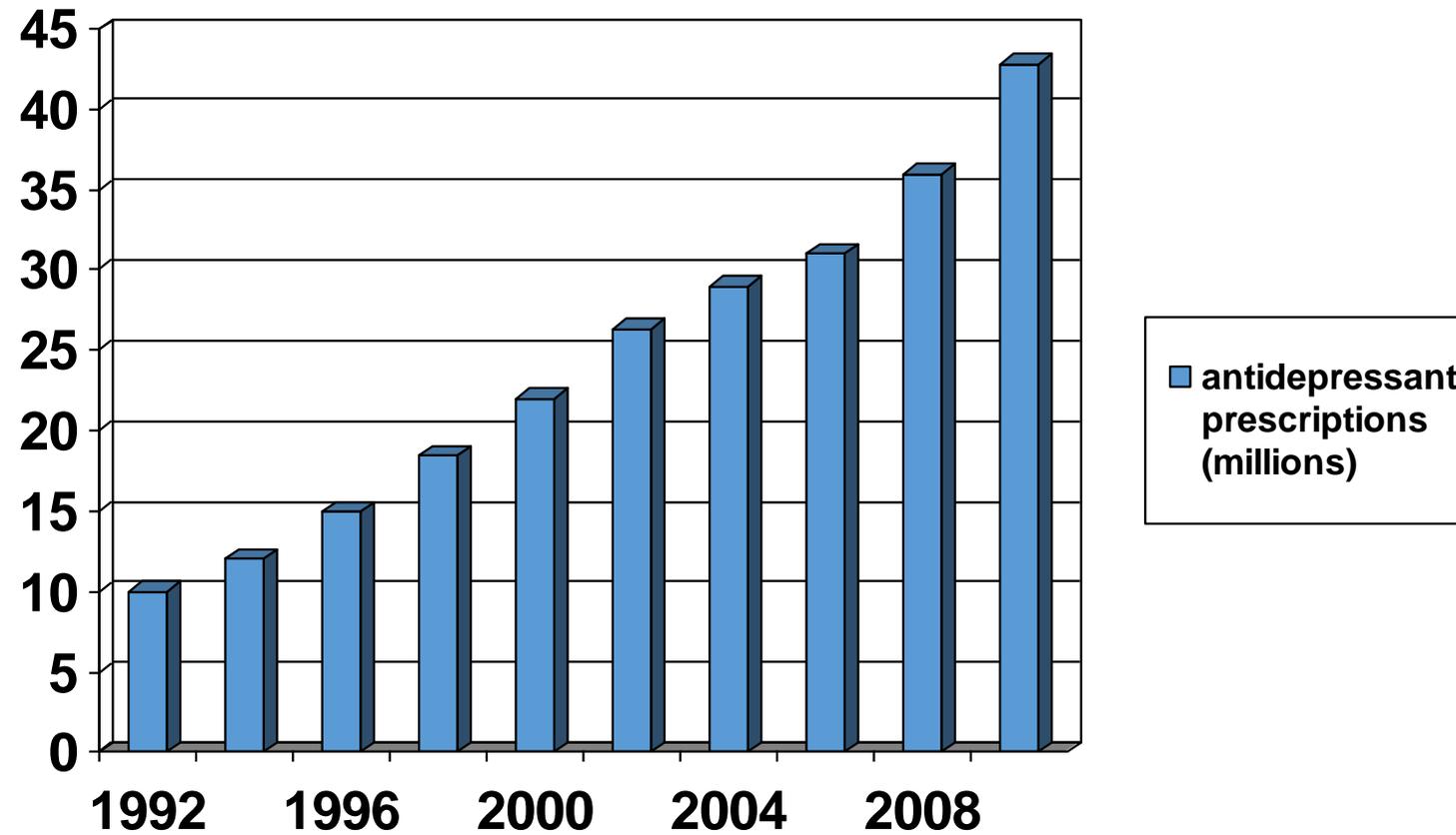
# Depression and inflammation

- Depression is associated with deviations in some inflammatory markers
- They are also associated with social class, obesity, exercise, sleep deprivation etc
- A causal association specific to depression has not been demonstrated
- Reference:



- “People with depression may have an imbalance of the brain’s neurotransmitters” Eli Lilly, 2003
- “Paxil CR helps balance your brain’s chemistry” PaxilCR.com, 2009

# Trends in antidepressant prescribing 1992-2010



# Models of drug action

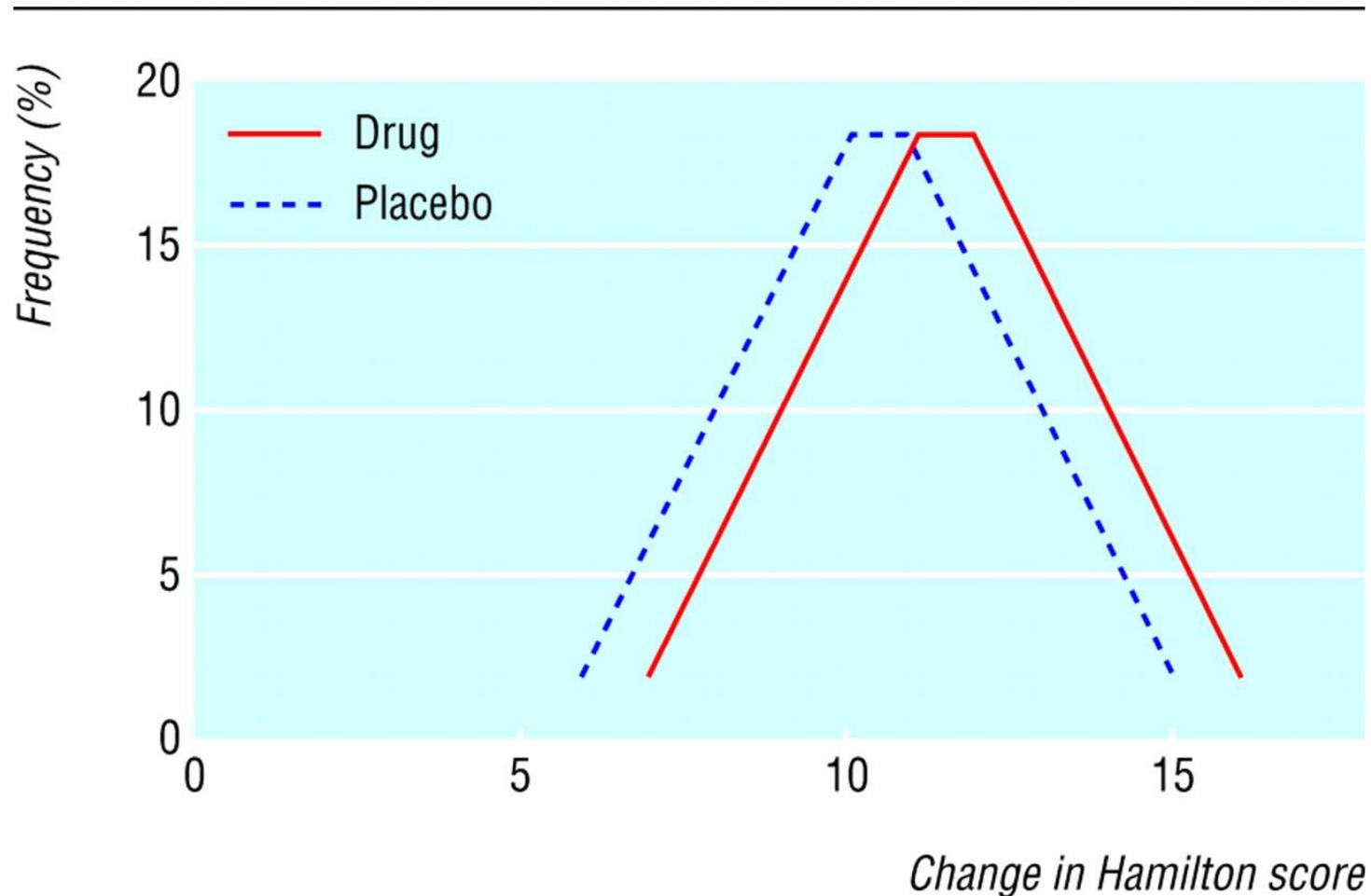
Moncrieff & Cohen, 2005, 2006; Moncrieff, 2008

<b>Disease centred model</b>	<b>Drug centred model</b>
Drugs correct an abnormal brain state	Drugs create an abnormal brain state
Drugs as disease treatments	Psychiatric drugs as <i>psychoactive drugs</i>
Therapeutic effects derived from effects on (presumed) disease pathology	Useful effects are a consequence of the drug induced state
Paradigm: insulin for diabetes	Paradigm: alcohol for social anxiety

# The drug-centred model- how antidepressants 'work'

- Interaction of psychoactive effects and symptoms
- Placebo and 'amplified placebo' effects
- Both may produce differences from placebo in RCTs.
- But are they worthwhile?

Difference between antidepressants and placebo is small (around 2 points on HRSD in meta-analyses Kirsch et al, 2002; Sugarman et al, 2014)



# Psychoactive effects of “antidepressants” (Herrmann, W.M. & McDonald, R.J. 1978)

## **TCA**s

- Profound sedation
- Cognitive and motor impairment
- EEG slowing
- Dysphoria
- Complex effects on numerous neurotransmitter systems
- Some have dopamine blocking activity (esp. amitriptyline and clomipramine)

# Psychoactive effects of SSRIs and venlafaxine:

(Goldsmith L. & Moncrieff J. 2011)

- Lethargy, mild cognitive impairment and emotional flattening or restriction
- Insomnia, agitation, restlessness, feelings of tension and mood instability- especially prevalent in younger people
- Not euphoriant like amphetamines
- Not calming/relaxing like benzodiazepines
- Increased suicidal ideation and behaviour

## Psychoactive effects of SSRIs and venlafaxine (Efexor): (Goldsmith & Moncrieff, 2011)

- “listlessness and lethargy”
- “sleepy all the time”
- “difficulty focusing”
- “fogginess”
- “total loss of libido”
- “inability to care about anything”
- “general numbness/mental blankness”
- “Increased anxiety.., borderline panic, mild insomnia”
- “mood swings”
- “irritability”
- “sometimes suicidal”

# So what is depression? Adolf Meyer



- With the disease model, the doctor ‘surrenders his common sense attitude’ and fails ‘to view the **abnormal mental trend as a genuine but faulty attempt to meet situations, an attempt worthy of being analysed**’ 1948, p 136

# A social constructionist viewpoint

- Emotions are complex and sophisticated human reactions to the human environment
- They have biological correlations, but are not the same as pure physiological states like being hungry, tired or having a cold
- Emotions do not map onto particular physiological states- e.g. arousal is associated with a range of different emotions like anger, anxiety and elation
- Emotional terminology and probably experience varies between cultures
- Emotions involve *moral* evaluations of events
- They have a communicative function

Rom Harré, An outline of the social constructionist viewpoint. In Harré, Editor, The social construction of emotions. 1986, p 2-14

# Alternative treatment options

- “The power of a diagnosis is that it changes the way that people understand and identify and treat themselves” Greenberg, P 229
- Believing mental health problems are diseases – i.e. inherent biological defects – is potentially debilitating and disempowering.
- Treatment needs to enable people to develop their own coping mechanisms and resources

