Complex PTSD and Comorbidity: Theoretical and Empirical Considerations

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1. A quick introduction to ICD-11 Complex PTSD

What is CPTSD in ICD-11

 Concept of a syndrome representing a complicated form of posttraumatic stress came to prominence with Judith Herman in 1992.

- ICD-10 (1992) 'Enduring personality change after catastrophic experience' (EPCACE).
- DSM-IV (1994) 'Disorders of extreme stress not otherwise specified' (DESNOS).
- Developmental Trauma Disorder (DTD) for children (Ford et al., 2018).
- All slightly different but have in common an emphasis on profound disturbances in self-organization resulting from repeated trauma.

What is CPTSD in ICD-11

 CPTSD in ICD-11 differs from all previous formulations in several important ways (Brewin, 2020):

- 1. It requires the core symptoms of PTSD to be present.
- 2. Diagnosis is based on the symptom profile, not on the type of trauma exposure.
- 3. The disturbances in self-organization problems are defined by a clear and small set of problems.
- 4. Functional impairment is explicitly identified as a requirement for the disorder.

What is CPTSD in ICD-11

Trauma exposure – any extremely threatening or horrific event(s).

PTSD

- Re-experiencing in the here and now
 - Nightmares or flashbacks
- Avoidance
 - Internal or external reminders
- Sense of current threat
 - Hypervigilance or exaggerated startle
- Functional impairment

CPTSD

- All PTSD requirements, plus...
- Pervasive Affective Dysregulation
 - Hyper- or Hypo-activation
- Pervasive Negative Self-Concept
 - Worthless or a failure
- Pervasive Disturbed Relationships
 - Withdrawal or avoidance
- Functional impairment

Epidemiology of ICD-11 CPTSD

- Several studies have estimated the prevalence of ICD-11 PTSD and CPTSD in nationally representative adult samples.
- USA: PTSD = 3.4% & CPTSD = 3.8% (Cloitre et al., 2019)
- Israel: PTSD = 6.7% & CPTSD = 4.9% (Hyland et al., 2020)
- Ireland: PTSD = 5.0% % & CPTSD = 7.7% (Hyland et al., 2021)

Epidemiology of ICD-11 CPTSD

 We also have figures for clinical/treatmentseeking samples (e.g.):

- UK patients: PTSD = 10.9% & CPTSD = 53.6% (Hyland et al., 2017)
- UK military vets: PTSD = 13.8% & CPTSD = 54.3% (Murphy et al., 2017)
- US military vets: PTSD = 18.1% & CPTSD = 52.8% (Cloitre et al., 2021)

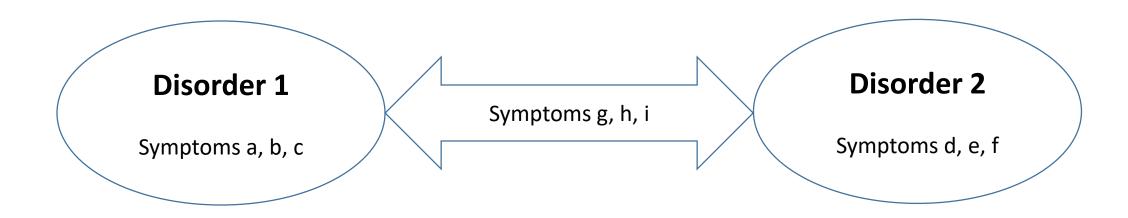
2. Comorbidity – theoretical considerations

ICD-11 & Comorbidity

- One the primary reasons for revising diagnoses in ICD-11 was to reduce comorbidity (see Maercker et al., 2013).
- The basic assumption was that by focusing on core symptoms and eliminating symptoms that overlap with other disorders, greater precision would be achieved, and comorbidity would be reduced.

- This approach is reasonable <u>only</u> if you assume that psychiatric disorders are independent entities.
- **Strong assumption**: psychiatric disorders reflect naturally occurring, distinct constructs like elements in the periodic table.
- Weak assumption: boundaries between psychiatric disorders are fuzzy but can be meaningfully identified like species differentiation in zoology (Kendler, 2016; Stein, 2008).

 Both assumptions allow for disorders to be distinguished from one another and accurate descriptions will achieve this.



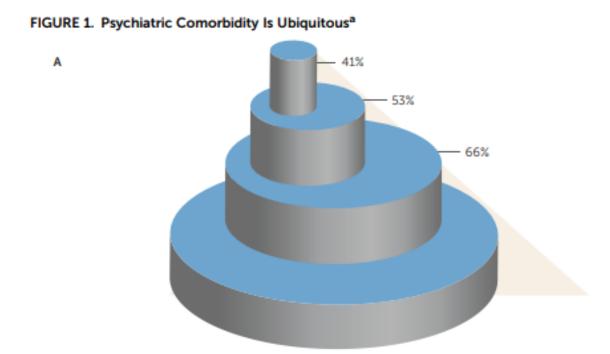
• If symptoms g, h, and i are eliminated, comorbidity would vanish.

 Standard psychiatric model assumes that all psychiatric disorders are categorically distinct from one another.

There is a bit of a problem though....

• There is no evidence to support this assumption and a mountain of evidence against it (Caspi et al., 2014).

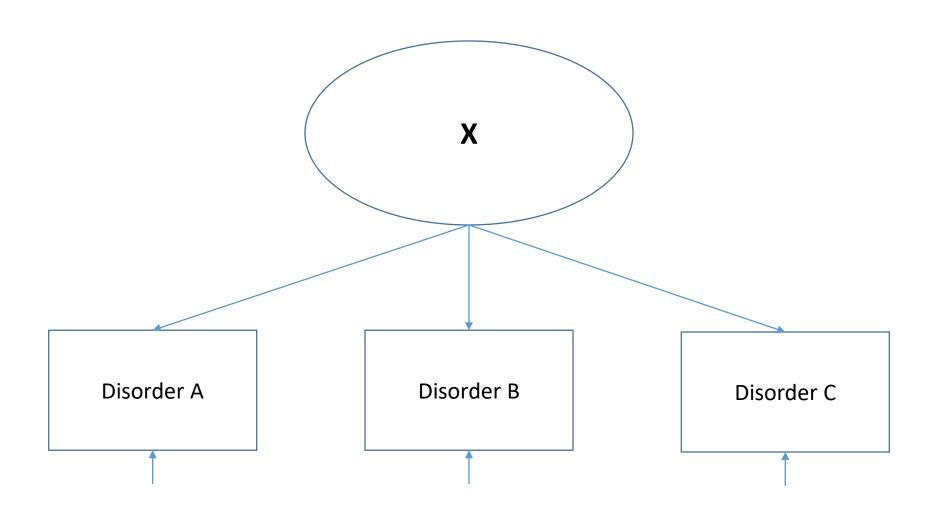
- Most people with one diagnosis will have a second...
- Most people with two will have a third, etc. (Caspi & Moffitt, 2018).
- Why is comorbidity so common if disorders are discrete?



 Psychological scientists now think about psychopathology as a dimensional construct.

 From a dimensional perspective, comorbidity between disorders is easy to understand.

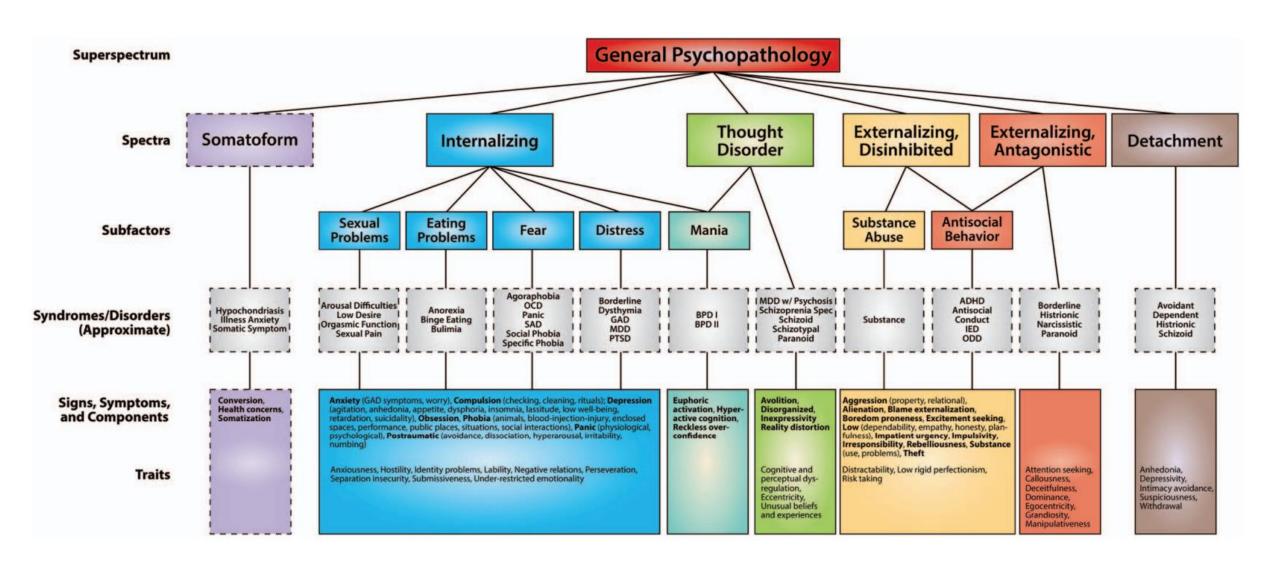
 Disorders co-occur because they share an underlying cause...



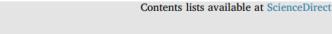
- In statistical terms, this is an 'effect indicator model' (Bollen & Lennox, 1991) – the latent variable has downward causal effects.
- The higher one scores on the latent variable, the more likely one is to have higher scores on all the observed indicators (i.e., disorders).
- From a dimensional perspective, comorbidity is the rule not the exception.
- Comorbidity cannot be eliminated it is a naturally occurring phenomenon.

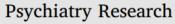
- One more crucial point error in measurement reduces the correlation between observed variables.
- The more precisely (reliably) you measure indicator variables, the stronger the correlation will be.
- If you increase the precision of the measurement of PTSD say, by removing non-specific symptoms you won't reduce comorbidity, you will increase it.
- Quite the problem for the ICD-11.

Hierarchical Taxonomy of Psychopathology



3. What we know about CPTSD comorbidity





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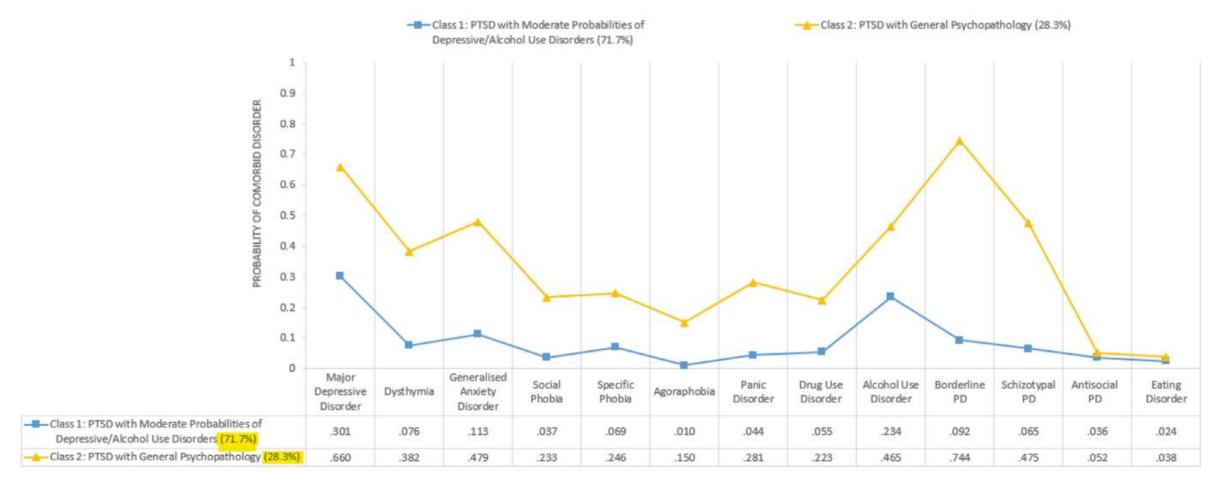
Patterns of comorbidity associated with *ICD-11* PTSD among older adults in the United States



Robert Fox^{a,*}, Philip Hyland^a, Joanna McHugh Power^{a,b}, Andrew N. Coogan^a

CPTSD comorbidity

- Used the NESARC-III dataset nationally representative sample of 36,309 US adults.
- Selected those participants aged 60 and older who met criteria for ICD-11 PTSD (or CPTSD) (n = 530).
- We used latent class analysis to model patterns of comorbidity with 13 other psychiatric disorders.



- No group identified without comorbidity.
- Elevated probabilities of comorbidity with other 'Distress' disorders (MDD, GAD, Borderline) – within-dimension comorbidity
- Elevated probabilities of across-dimension comorbidity (AUD, Schizotypal PD)

- Examined DSM-5 PTSD and ICD-11 PTSD/CPTSD comorbidity and disability among Ukrainian IDPs.
- Representative sample of Ukrainian IDPs (N = 2203).
- Assessed...
 - DSM-5 PTSD (PCL-5)
 - ICD-11 PTSD/CPTSD (ITQ)
 - Depression (PHQ-9)
 - Generalized anxiety (GAD-7)
 - Disability (WHODAS 2.0)

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A comparison of DSM-5 and ICD-11 PTSD prevalence, comorbidity and disability: an analysis of the Ukrainian Internally Displaced Person's Mental Health Survey

Shevlin M, Hyland P, Vallières F, Bisson J, Makhashvili N, Javakhishvili J, Shpiker M, Roberts B. A comparison of DSM-5 and ICD-11 PTSD prevalence, comorbidity and disability: an analysis of the Ukrainian Internally Displaced Person's Mental Health Survey.

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B. Roberts⁸

- DSM-5 PTSD = 27.4% (95% CI = 25.5, 29.3%)
- ICD-11 PTSD/CPTSD = 21.0% (95% CI = 19.2, 22.7%)
- DSM-5 PTSD: 48.5% had 'clinically significant' levels of disability.
- ICD-11 C/PTSD: 57.6% had 'clinically significant' levels of disability.
- ICD-11 PTSD/CPTSD reflects a more 'debilitating' diagnosis than DSM-5 PTSD.
- Comorbidity rates were higher for ICD-11 PTSD/CPTSD than DSM-5 PTSD...

Table 2. Comorbidity of DSM-5 and ICD-11 PTSD with generalized anxiety disorder

PTSD diagnosis	% with GAD	% with MDD	% with GAD and MDD					
Comorbidity rates for ICD-11 and DSM-5 PTSD								
ICD-11	54.6%	64.3%	43.2%					
DSM-5	46.7%	57.7%	35.0%					
Difference	7.9%*	6.5%*	8.1%*					
Comorbidity rates for 'unique' cases of ICD-11 and DSM-5 PTSD								
Unique ICD-11	29.3%	34.6%	22.8%					
Unique DSM-5	25.5%	36.6%	15.9%					
Difference	3.8%*	2.0%*	6.9%*					

GAD, generalised anxiety disorder; MDD, major depressive disorder.

- Consistent with the predictions of a dimensional perspective of psychopathology.
- Nearly half of those with ICD-11 PTSD/CPTSD had MDD and GAD.

^{*}All differences are statistically significant (P < 0.05).

Risk factors and comorbidity of ICD-11 PTSD and complex PTSD: Findings from a trauma-exposed population based sample of adults in the United Kingdom

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Thanos Karatzias<sup>1,2</sup> | Philip Hyland<sup>3,4</sup> | Aoife Bradley<sup>1</sup> | Marylène Cloitre<sup>5,6</sup> | Neil P. Roberts<sup>7,8</sup> | Jonathan I. Bisson<sup>8</sup> | Mark Shevlin<sup>9</sup>
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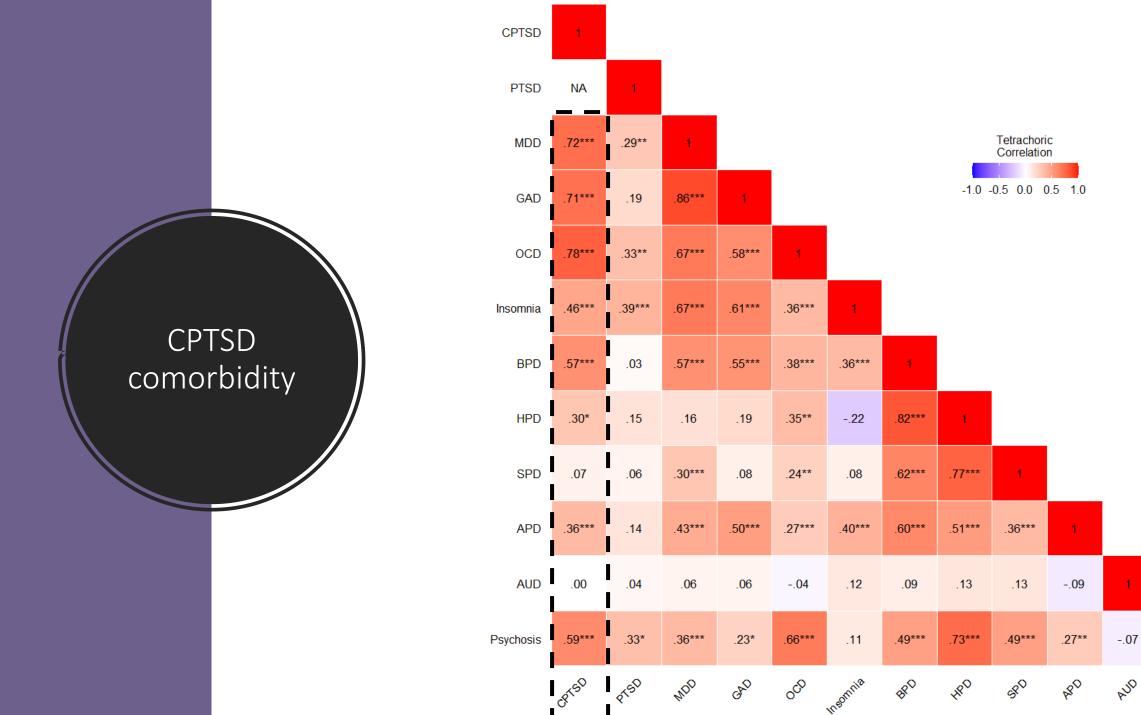
- Assessed...
 - Depression (PHQ-9)
 - Generalized Anxiety (GAD-7)
 - Alcohol Use Disorder (AUDIT-C)
 - Self-harm/suicide
 - Chronic illness (Charlson Comorbidity Index)
- ICD-11 PTSD = 5.3%
- ICD-11 CPTSD = 12.9%

High rates of comorbidity associated with ICD-11 CPTSD (and PTSD)

TABLE 3 Proportion of those with PTSD and CPTSD meeting probable diagnosis for other disorders

	% with MDD	% with GAD % with AUD		% with suicidality	% with chronic illness
	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)
PTSD	48.2	30.4	60.0	57.1	44.6
	1.79 (1.04-3.07)*	1.10 (0.61-1.97)	2.04 (1.02-4.08)*	3.13 (1.81-5.41)***	1.90 (1.10-3.27)*
CPTSD	89.0	86.0	58.8	56.6	45.6
	21.82 (12.51-38.04)***	24.63 (14.77-41.07)***	2.07 (1.36-3.15)**	3.43 (2.37-4.70)***	2.11 (1.46-3.05)***

- One last piece of data to show you.
- Findings from a recent nationally representative survey of adults in Ireland (N = 1,100)
- Assessed 12 different mental health disorders by means of self-report measures - set very strict criteria for meeting diagnostic threshold.



4. Key takeaway messages

Conclusions

- ICD-11 CPTSD is relatively common in the general population (4-8%), and very common in treatment seeking persons (~ 50%).
- ICD-11 CPTSD is a disorder associated with high levels of distress and disability.
- Comorbidity is very common among those with ICD-11 CPTSD.

Conclusions

- 'Internalizing' disorders likely to commonly co-occur with ICD-11 CPTSD include:
 - Major Depression
 - Generalized Anxiety Disorder
 - Obsessive-Compulsive Disorder
 - Insomnia Disorder
 - Borderline Personality Disorder
- Thought Disorder and Externalizing Disorders are also likely to co-occur with ICD-11 CPTSD but potentially at lower levels:
 - Alcohol Use Disorder
 - Psychosis
 - Histrionic Personality Disorder
- Given how severe a condition ICD-11 CPTSD is, multiple comorbidities are expected.

Conclusions

• Finally, a substantial proportion of people with ICD-11 CPTSD exhibit suicidal tendencies.

- In our Irish study we found that among those with CPTSD:
 - 62% had a history of suicidal ideation (OR = 4.9)
 - 45% had a history of self-harming behaviour (OR = 7.6)
 - 40% had a history of attempted suicide (OR = 7.2)
- Suicide is likely to be an issue for many people suffering from Complex PTSD.

THANK YOU!