

2024-25 FALL

FORENSIC PSYCHOLOGY

WEEK 4

Psychopathy

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- Ted Bundy was an American serial killer.
- He kidnapped, raped and killed his victims.
- Bundy was overtly normal, free from insanity or delusion, and his crimes were instrumental, organised and calculating.
- After more than 10 years of denial, he admitted that he had committed more than 30 murders.

Psychopathy

- The term psychopathy refers to an individual suffering from a severe disorder of personality that is strongly linked with antisocial behaviour.
- The key clinical characteristics of the condition are a callous disregard for others and a lack of behavioural controls.

Psychopathy

- The condition is associated with high levels of crime and psychopaths are thought to account for a disproportionate amount of crime compared with non-psychopathic individuals.
- Although clinically elevated levels of psychopathic personality may be rare in the general population, continuities in the mechanisms underlying psychopathic personality nonetheless exist.

psychiatric patients

- appear outwardly normal,
- nonetheless extremely callous,
- unable to express remorse or guilt,
- seem to be devoid of human emotion,
- typically of above average intelligence
- seemingly charming,
- lack the capacity for love,
- social behaviour is distinctly antisocial,
- show a notable lack of anxiety or neuroses

ASSESSMENT OF PSYCHOPATHY

- There are several tools available for assessing psychopathic traits in individuals.
- The Psychopathy Checklist Revised (PCL-R; Hare, 1991, 2003)
- semi-structured interviews and information held on file
- 20 items, each of which is scored from 0 to 2, with a maximum possible score of 40

The PCL-R

- items are grouped into two broad factors:
- Factor1 assesses the interpersonal/affective features of psychopathy,
- Factor 2 measures the lifestyle/antisocial features of the disorder
- originally thought to be underpinned by two distinct factors, further research suggests the presence of three (Cooke & Michie, 2001), or even four (Hare, 2003) distinct factors or facets

PCL-R items (Hare, 2003)

Factor 1 – interpersonal/affective features

Glibness/superficial charm (Interpersonal)

Grandiose sense of self-worth (Interpersonal)

Pathological lying (Interpersonal)

Conning/manipulative (Interpersonal)

Lack of remorse or guilt (Affective)

Shallow affect (Affective)

Callous/lack of empathy (Affective)

Failure to accept responsibility for own actions (Affective)

PCL-R items (Hare, 2003)

Factor 2 – lifestyle/antisocial features

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Need for stimulation/proneness to boredom (Lifestyle)
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Parasitic lifestyle (Lifestyle)
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Poor behavioural controls (Antisocial)
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Early behaviour problems (Antisocial)
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Impulsivity (Lifestyle)
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Irresponsibility (Lifestyle)
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Juvenile delinquency (Antisocial)
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Revocation of conditional release (Antisocial)
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Criminal versatility (Antisocial)
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PCL-R items (Hare, 2003)

Additional items (not loading on Factors 1 or 2, sometimes referred to as orphan items)

Promiscuous sexual behaviour

Many short-term marital relationships

- Variants of the PCL-R have also been developed.
- ✓ PCL-Youth Version
- ✓ the PCLScreening Version
- ✓ the Psychopathic Personality Inventory
- ✓ the Levenson Self Report Psychopathy scales

- The clinical condition of psychopathy bears a strong overlap with the construct of antisocial personality disorder (ASPD), though the two disorders are dissociable.
- ASPD is a diagnostic category of the DSM-5; which is based predominantly on the behavioural profile of an individual.

- ASPD is characterised by a disregard for societal norms and rules that can take the form of a persistent pattern of antisocial behaviour, impulsivity and irresponsibility.
- **ASPD** is **highly prevalent in offenders**, with 60–70% of all male offenders receiving a diagnosis.
- Unlike psychopaths, individuals with ASPD do not necessarily show callous and unemotional traits.

- Although many offenders with a diagnosis of psychopathy would also be labelled as suffering from ASPD, only a third of those with a diagnosis of ASPD would meet the diagnostic criteria for psychopathy.
- Offenders with a diagnosis of ASPD and without psychopathy are also distinguishable in terms of brain structure with psychopaths,
- but not those with ASPD in the absence of psychopathy, showing structural abnormalities in areas associated with empathy and morality.

Psychopathic Subtypes

- Karpman described variants of the condition as *primary* and *secondary*.
- Primary psychopaths, in keeping with the original formulation of the disorder, show a lack of nervousness and an inability to experience fear and anxiety.
- Secondary psychopaths appear neurotic and anxious.

Differentiating the emotions of anxiety and fear

Anxiety	Fear
Long acting	Expressed in response to current dangers
Directed against the potential occurrence of diffuse future threats.	Threat is specific and definable
Slow onset	Quick onset
Not associated with particular facial expressions	Accompanied by arousal, distinctive facial emotional expressions and fear related behaviours
Associated with hypervigilance and hyperarousal	Results in the release of escape and avoidance behaviours
Extended amygdala and the bed nucleus of the striaterminalis critically involved	Central amygdala nuclei involved
Reduced by both alcohol and benzodiazepines	Strong effect of benzodiazepines but less so alcohol

- One of the still-to-be-resolved debates whether antisocial behaviour represents:
- ➤ a core trait of psychopathic personality, or
- ➤ a behavioural consequence that is expressed as a product of having a specific collection of personality traits.

PSYCHOPATHY AND AGGRESSION

- **Psychopathy is associated** with high levels of **violent behaviour**.
- However, the **relationship** of psychopathy and violence **is not straightforward**.
- Acts of aggression can be classified as either reactive or proactive/instrumental.
- High levels of instrumental aggression **distinguish** psychopaths from **sufferers** of other disorders that are similarly linked with elevated levels of aggression or violence.

PSYCHOPATHY AND AGGRESSION

- Reactive aggression refers to an unplanned or impulsive act of violence in response to some form of provocation, threat or danger.
- By contrast, instrumental aggression is characterised by goaldirected acts of violence (for example, to gain money or drugs) that are typically executed in a predetermined and calculated manner.

CORRELATES OF PSYCHOPATHY IN ADOLESCENTS AND CHILDREN

- There has been **much debate** over whether adolescents can be diagnosed as psychopaths.
- There have been concerns that any apparent callous and unemotional personality features seen in adolescence may in fact be transient and not enduring traits.
- The term "conduct disorder" (CD) is applied to adolescents and children who show persistent antisocial behaviour and whose actions appear impulsive and irresponsible.

GENETIC BASIS OF PSYCHOPATHY

- Karpman (1941) who noted that the core **personality features** of the condition may be **familial**.
- Recent work has supported this idea with several studies now showing that callous and unemotional (CU) traits may be heritable.
- Studying psychopathic traits in 353 male twins, the results suggested that there was an overall genetic influence on genetic and environmental contributions to the

➢ interpersonal,

affective and

behavioural/lifestyle features of psychopathy.

FAMILY FACTORS ASSOCIATED WITH THE DEVELOPMENT OF PSYCHOPATHY

- Early traumatic experience, whether it is via neglect or abuse, is often considered to be a predictor of antisocial behaviour in later life.
- The **relationship** of early adverse experiences and psychopathy, however, **is complex**.
- The affective deficits that are fundamental to psychopathy are assumed to be inherited and therefore should be relatively immune to the influence of societal and environmental factors.

FAMILY FACTORS ASSOCIATED WITH THE DEVELOPMENT OF PSYCHOPATHY

- The lifestyle and antisocial features of the disorder, that are related to Factor 2 on the PCL-R, are assumed to be acquired and may constitute an emotional response to a harsh environment.
- These environmental factors would include
- ➢ parental conflict,
- ➤ rejection,
- neglect and
- harsh or inconsistent **punishment**.

FAMILY FACTORS ASSOCIATED WITH THE DEVELOPMENT OF PSYCHOPATHY

- We need to **distinguish** between early abuse and neglect.
- **High PCL scores** of adults were associated with the experience of **childhood abuse and neglect**.
- Psychopathic tendencies are more associated with parental neglect rather than early physical abuse and this difference influences potential neurochemical changes in psychopaths.

ATTACHMENT, PSYCHOPATHY AND OFFENDING

- secure, preoccupied, dismissive and fearful
- These four styles are thought to result from differing levels of anxiety over abandonment and the avoidance of intimacy.
- secure attachment style is characterised by low levels of anxiety and avoidance
- preoccupied and dismissive styles result from high levels of anxiety and avoidance
- fearful attachment styles reflect heightened levels of both anxiety and avoidance tendencies

ATTACHMENT, PSYCHOPATHY AND OFFENDING

- Children who had experienced early physical abuse tended to show an avoidant attachment style whereas neglect was associated with ambivalent attachment.
- Physically abused children showed greater levels of aggression and antisocial behaviour than neglected and control children.
- Attachment difficulties are associated with criminality and drug abuse and a dismissive style of attachment has been associated with antisocial personality traits.

ATTACHMENT, PSYCHOPATHY AND OFFENDING

- A direct link between insecure attachment style and psychopathy has been reported.
- Incarcerated psychopaths typically show dismissive attachment styles.
- Dismissive attachment style may be predictive of antisocial behaviour and personality disorders in general, rather than psychopathy.

FACIAL EXPRESSION RECOGNITION

- The inability of psychopaths to detect facial expressions communicating distress, notably fear and sadness, leaves them vulnerable to continuing to act in fear inducing ways.
- As psychopathy represents a developmental disorder these deficits would be expected to be present across the lifespan.
- The amygdala has been assumed for some time as being the neural structure that is most critically involved in the processing of emotional facial expressions, and expressions of fear in particular.

FACIAL EXPRESSION RECOGNITION

- Patients with bilateral amygdala damage show impaired recognition of fear face affect.
- Patients with unilateral amygdala damage, typically show intact recognition of fearful faces.
- The deficits in fearful face recognition associated with amygdala damage may result from problems retrieving previously acquired knowledge about the emotion of fear.

A Neurobiological Model of Fearful Face Recognition Deficits in Psychopathy

- It would be predicted that psychopathy is associated with low levels of amygdala activity.
- Increased activity in prefrontal areas, implying that high level cognitive mechanisms are being deployed to solve the emotional recognition task.
- The abnormal amygdala functioning in CU children when processing fearful facial expressions appears to be linked to CU traits rather than ADHD or generally antisocial behaviour. (Callous-Unemotional=CU)

Eye Scan Paths, Fearful Face Recognition and Psychopathy

- Children with CU traits show a tendency to look at the mouth region of faces rather than the eyes.
- This **deficit** correlates with **a failure to be able to detect facial expressions** of fear, potentially because the eyes represent the major source of facial information relating to this emotion.
- A similar lack of attention to the eye region has also been noted in relation to the interpersonal/affective, but not the lifestyle/antisocial features of psychopathy among adult male non-offenders.
- Reduced attention to the eyes was related to the affective aspects, but not the behavioural aspects, of psychopathic personality.

PSYCHOPATHY AND AVERSIVE CONDITIONING

- Neuroimaging-based experiments have likewise demonstrated that the amygdala is central to the formation of conditioned emotional responses in humans.
- These deficits, which are thought to be present in childhood, limit the ability to learn that one's actions are causing distress to another, and thus compromise early moral socialisation.

NEUROCHEMISTRY OF PSYCHOPATHY

- Relatively **little is known** about the neurochemistry underlying psychopathy.
- One noticeable exception has been a study on **oxytocin** levels in offenders.
- Oxytocin is a neuropeptide that is released from the paraventricular nucleus of the hypothalamus.
- Within the brain, oxytocin plays critical roles by binding to receptors in the medial nuclei of the amygdala to drive the need to form attachments and cement interpersonal bonds.
- Oxytocin seems to enhance both prosocial and antisocial emotions, depending on the specific situation and context in which the participant is placed.

NEUROCHEMISTRY OF PSYCHOPATHY

- The levels of intracerebral oxytocin can be raised by taking the neuropeptide intranasally.
- This process has been associated with the increased expression of many prosocial behaviours including trust, emotional empathy and altruism.
- However, recent findings have also shown that intranasal oxytocin can increase envy and gloating, and intergroup bias, including a tendency to dehumanise racial outgroups.

NEUROCHEMISTRY OF PSYCHOPATHY

- In convicted serious offenders, the oxytocin levels were highly correlated with Factor 2 scores on the PCL-R, indicative of raised oxytocin levels in relation to the lifestyle and antisocial features of the disorder.
- Adolescent girls who had experienced severe early abuse showed grossly elevated urinary oxytocin levels, and lower levels of salivary cortisol following a laboratory stressor.

CONCLUSIONS

- Current research suggests that psychopathic traits are identifiable in children and adults, and among forensic and non-forensic samples.
- These traits have a genetic component and are often accompanied by a variety of cognitive, affective and functional correlates.
- The aggressive and antisocial behaviours of psychopaths are typified by instrumental motives and the use of violence for personal gain.

SUMMARY

 Psychopathy refers to a constellation of personality traits associated with antisocial behaviour and instrumental aggression.

 Both genetic and environmental factors have been linked with the development of psychopathic traits.

SUMMARY

 Psychopaths show affective abnormalities including difficulty processing and learning from aversive social and emotional cues.

 The neurobiology of psychopathy is thought to be closely linked with amygdala dysfunction and impaired empathic development.