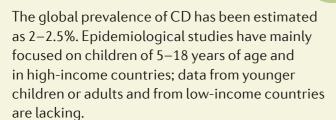
## **CONDUCT DISORDER**



For the Primer, visit doi:XXX

Conduct disorder (CD) is a psychiatric disorder that originates in childhood or adolescence, and is characterized by behaviours that violate the rights of other individuals.

## **EPIDEMIOLOGY**





CD is approximately twice as common in males than in females

**QUALITY OF LIFE** 

CD is associated with criminal and irresponsible

behaviours, social impairment and academic

will develop antisocial personality disorder

in adulthood.

# **DIAGNOSIS**

Diagnosis of CD involves clinical interview with parents or teachers to identify problem behaviours in the child. Symptoms can be divided into four categories.

**Serious** rule violations Breaking of curfew, running away from home and truancy

to people or animals Physical cruelty to people or animals, bullying or threatening, use of a weapon and forced sexual activity

Aggression

**Deceitfulness** or theft

Burglary, lying and stealing

Destruction of property Deliberate fire setting to cause serious damage, or deliberate destruction of

property

Children with CD and a lack of remorse or guilt, and with shallow emotions are differentiated by the

or occupational issues that occur throughout life. Comorbid psychiatric disorders are common in individuals with CD; oppositional defiant disorder and attention-deficit/ hyperactivity disorder (ADHD) are common in children, whereas substance misuse is common in adolescents. Some individuals with CD

Increased awareness of CD is essential, as this disorder is under-treated and CD research is

drastically under-funded in many countries. Owing to the large burden of this disorder, funding should be increased to facilitate

an improved understanding of disease mechanisms and quide the development of new treatments.

# **MANAGEMENT**

Parent training is the first-line treatment for individuals for with CD, during which parents are taught how to increase warmth, reinforce positive behaviour and set consistent consequences for negative behaviours for their child. In late childhood or adolescence, a child skills training component is added, which aims to improve the child's social and problem-solving skills, emotional regulation and school performance, and to provide community support. Individuals with CD and limited prosocial emotions also receive additional parental and child training.

be required in those with CD and comorbid ADHD, developmental disorders or internalizing disorders

### **MECHANISMS**



The aetiology of CD is complex, and includes both environmental and genetic risk factors. Environmental risk factors include parental maltreatment, deviant peers, low socioeconomic status, community violence and parental psychopathology. The heritability of CD is 40-50%; implicated genes include those involved in serotonergic and dopaminergic signalling, although further study is required. Individuals with CD have deficits in emotion recognition, affective empathy, decision making and reinforcement learning, which are associated with functional alterations in several brain regions, including cortical regions and the limbic system. Structural brain abnormalities and alterations in brain connectivity have also

been reported.

frequently under-diagnosed and

**OUTLOOK**