Ganser's Syndrome (Pseudodementia)

Synonyms: prison psychosis, pseudodementia, hysterical pseudodementia

This is a rare condition of uncertain or variable aetiology. It was first described by the psychiatrist Sigbert Ganser in 1898. Ganser described the syndrome after studying the behaviour of three inmates of a prison and thus it has acquired the synonym 'prison psychosis'. He was of the opinion that the condition was hysterical or malingering in origin.

It is thought that people develop Ganser's syndrome, either consciously or unconsciously, to avoid an unpleasant situation. There has been much debate over the years as to whether it is psychotic, hysterical or factitious in origin. Association with serious illness may suggest an aetiology similar to delirium. It is fairly common to find it associated with head injury. There may be no one cause in all cases.

The International Classification of Diseases (ICD-10) classifies Ganser's syndrome as a dissociative disorder. It is often classified as a factitious disorder.

Epidemiology

Ganser's syndrome is said to be very rare with fewer than 100 cases in the literature. The precise incidence is not known, as most of the recorded cases in the literature describe only individual patients and criteria are lax. Ganser's syndrome is more common in men, with a probable male-to-female ratio of 3 or 4:1. It is most frequently described in individuals between the ages of 15 and 40 but a wide range of ages has been reported. It has been described in children. Ganser's syndrome is thought to be precipitated by episodes of severe stress but has also been described in association with head injury.

Presentation

The condition tends to occur against a background of head injury or serious illness. Severe psychosocial stress can also be a cause; psychosocial stresses accompanying immigration may have a catalytic effect in triggering the condition. The four principal features are:

- Approximate answers.
- Clouding of consciousness.
- Somatic conversion symptoms such as hysterical paralysis.
- Hallucinations, visual or auditory.

The term approximate answers needs explanation. It is the most characteristic feature of the condition and German terms such as vorbeireden meaning talking past and vorbeigehen meaning to pass by or danebenreden meaning talking next to are used in the literature. The essential feature of approximate answers is that whilst the patient gives an incorrect response, the nature of the response suggests that he/she understands the question. Thus the patient may say that grass is blue and that a dog has three legs. When asked the day of the week or month of the year, he/she will give a day of the week or month of the year but the wrong one. This is in direct contrast to answers that are simply nonsensical, perseverative or otherwise inappropriate.

Diagnosis criteria are not well established. Most authorities would want approximate answers and at least one other principal feature to make the diagnosis.

Other features include:

- A dreamy or perplexed appearance.
- Memory or personal identity loss.
- No recollection of the condition upon recovery.
- Perseveration.
- Echolalia.
- Echopraxia.
- Confusion.
- Precipitating stress.
- Loss of personal identity.

There is no typical finding on examination. A full neurological examination should be performed and a mental state examination. There are now more sophisticated tests to assess exaggerated or fabricated cognitive dysfunction. Look for signs of self-inflicted injury.

Differential diagnosis

- Acute psychotic illness such as schizophrenia.
- Temporal lobe epilepsy.
- Wernicke's encephalopathy.
- Head injury.
- Encephalitis.
- Meningitis.
- Münchhausen's syndrome.
- Drug intoxication.
- Malingering.

**Associated diseases**[^2]

Ganser's syndrome has been reported in the following:

- Neurosyphilis
- Epilepsy
- Post-stroke
- Meningiomas
- Post-anoxia
- Postpartum psychosis
- Traumatic brain injuries
- Infections
- Various dementias

**Investigation**[^2]

No investigation is diagnostic but a number may be performed to exclude other pathology. It is important to exclude an underlying organic cause.

- Mental state examination should be performed.
- FBC.
- U&Es.
- LFTs.
- Vitamin B12 levels.
- TFTs.
- Urine drug screen
- CT scan or MRI scan to exclude structural pathology.
- Lumbar puncture may be performed to exclude meningitis or encephalitis.
- Electroencephalograph (EEG) does not usually show any specific disorder.[^6] However, it should be performed to rule out underlying causes such as delirium or seizure disorder.

One study reported that a man pursuing an insurance claim presented with Ganser's syndrome-like symptoms. Simple memory tests and the existence of symptoms not typical of the syndrome were used to exclude the syndrome.[^7]
Management

Admission to a psychiatric unit in the acute phase is usually required for assessment and to prevent harm to self or to others. Simple psychotherapy is the mainstay of treatment. Drug therapy is of limited value and not usually required. Evidence of benefit from benzodiazepines, antipsychotic medication or other treatments, such as electroconvulsive therapy or hypnosis, is very limited.

Prognosis

If the precipitating stress has been withdrawn, symptoms usually resolve spontaneously within days but there is usually no recollection of the illness. Sometimes severe depression follows.

Mortality and morbidity are related to the underlying cause, especially if organic.

Further reading & references

- Sigbert Josef Maria Ganser; whonamedit.com
- 2015/16 ICD-10 diagnostic code F44.89 - other dissociative and conversion disorders; ICD10 Data.com

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