

Mass psychogenic illness

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"Mass hysteria" redirects here. For the heavy metal band, see [Mass Hysteria \(band\)](#).

Mass psychogenic illness	
Other names	Mass hysteria, epidemic hysteria, mass sociogenic illness, mass psychogenic disorder
Dancing plagues of the Middle Ages are thought to have been caused by mass hysteria	
Specialty	Psychiatry , Clinical Psychology
Symptoms	Headache, dizziness, nausea, abdominal pain, cough, fatigue, sore throat
Risk factors	Childhood or adolescence, intense media coverage.
Differential diagnosis	Actual diseases, mass delusions, somatic symptom disorder

Mass psychogenic illness (**MPI**), also called **mass sociogenic illness**, **mass psychogenic disorder**, **epidemic hysteria**, or **mass hysteria**, is the rapid spread of illness signs and symptoms affecting members of a cohesive group, originating from a [nervous system](#) disturbance involving excitation, loss, or alteration of function, whereby physical complaints that are exhibited unconsciously have no corresponding organic [aetiology](#).^[1]

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Etiology

Mass psychogenic illness involves the spread of illness symptoms through a population where there is no infectious agent responsible for contagion.^[2] MPI is distinct from other types of collective [delusions](#) by involving physical symptoms.^[3] According to Balaratnasingam and Janca, "Mass hysteria is to date a poorly understood condition. Little certainty exists regarding its etiology."^[4] Qualities of MPI outbreaks often include:^[3]

- symptoms that have no plausible organic basis;
- symptoms that are transient and benign;
- symptoms with rapid onset and recovery;
- occurrence in a segregated group;
- the presence of extraordinary anxiety;
- symptoms that are spread via sight, sound or oral communication;
- a spread that moves down the age scale, beginning with older or higher-status people;
- a preponderance of female participants.

British psychiatrist Simon Wessely distinguishes between two forms of MPI:^[1]

- *Mass anxiety hysteria* "consists of episodes of acute anxiety, occurring mainly in schoolchildren. Prior tension is absent and the rapid spread is by visual contact."^[5]
- *Mass motor hysteria* "consists of abnormalities in motor behaviour. It occurs in any age group and prior tension is present. Initial cases can be identified and the spread is gradual. ... [T]he outbreak may be prolonged."^[5]

While his definition is sometimes adhered to,^{[1][6]} others such as Ali-Gombe et al. of the University of Maiduguri, Nigeria contest Wessely's definition and describe outbreaks with qualities of both mass motor hysteria and mass anxiety hysteria.^[7]

The [DSM-IV-TR](#) does not have specific diagnosis for this condition but the text describing [conversion disorder](#) states that "In 'epidemic hysteria', shared symptoms develop in a circumscribed group of people following 'exposure' to a common precipitant."

Common symptoms

Timothy F. Jones of the Tennessee Department of Health compiles the following symptoms based on their commonality in outbreaks occurring in 1980–1990:^[8]

Symptom	Percent reporting
Headache	67
Dizziness or light-headedness	46
Nausea	41
Abdominal cramps or pain	39

Cough	31
Fatigue, drowsiness or weakness	31
Sore or burning throat	30
Hyperventilation or difficulty breathing	19
Watery or irritated eyes	13
Chest tightness/chest pain	12
Inability to concentrate/trouble thinking	11
Vomiting	10
Tingling, numbness or paralysis	10
Anxiety or nervousness	8
Diarrhea	7
Trouble with vision	7
Rash	4
Loss of consciousness/ syncope	4
Itching	3

Prevalence and intensity

Adolescents and children are frequently affected in cases of MPI.^[8] The hypothesis that those prone to extraversion or [neuroticism](#), or those with low IQ scores, are more likely to be affected in an outbreak of hysterical epidemic has not been consistently supported by research. Bartholomew and Wessely state that it "seems clear that there is no particular predisposition to mass sociogenic illness and it is a behavioural reaction that anyone can show in the right circumstances."^[11]

Intense media coverage seems to exacerbate outbreaks.^{[4][6][8]} The illness may also recur after the initial outbreak.^[8] John Waller advises that once it is determined that the illness is psychogenic, it should not be given credence by authorities.^[6] For example, in the Singapore factory case study, calling in a medicine man to perform an exorcism seemed to perpetuate the outbreak.^[9]

Research

Besides the difficulties common to all research involving the social sciences, including a lack of opportunity for controlled experiments, mass sociogenic illness presents special difficulties to researchers in this field. Balaratnasingam and Janca report that the methods for "diagnosis of mass hysteria remain contentious."^[4] According to Jones, the effects resulting from MPI "can be difficult to differentiate from [those of] [bioterrorism](#), rapidly spreading infection or acute [toxic](#) exposure."^[8]

These troubles result from the residual diagnosis of MPI. Singer, of the Uniformed Schools of Medicine, puts the problems with such a diagnosis thus:^[10] "[y]ou find a group of people getting sick, you investigate, you measure everything you can measure ... and when you still can't find any physical reason, you say 'well, there's nothing else here, so let's call it a case of MPI.'" There is a lack of logic in an argument that proceeds: "There isn't anything, so it must be MPI." It precludes the notion that an organic factor could have been overlooked. Nevertheless, running an extensive number of tests extends the probability of false positives.^[10]

In history

See also: [List of mass hysteria cases](#)

Middle Ages

The earliest studied cases linked with epidemic hysteria are the [dancing manias](#) of the [Middle Ages](#), including [St. John's dance](#) and [tarantism](#). These were supposed to be associated with spirit possession or the bite of the [tarantula](#). Those afflicted with dancing mania would dance in large groups, sometimes for weeks at a time. The dancing was sometimes accompanied by stripping, howling, the making of obscene gestures, or even (reportedly) laughing or crying to the point of death. Dancing mania was widespread over Europe.^[11]

Between the 15th and 19th centuries, instances of motor hysteria were common in [nunneries](#). The young ladies that made up these convents were sometimes forced there by family. Once accepted, they took [vows of chastity](#) and [poverty](#). Their lives were highly regimented and often marked by strict disciplinary action. The nuns would exhibit a variety of behaviors, usually attributed to [demonic possession](#). They would often use crude language and exhibit suggestive behaviors. One convent's nuns would regularly meow like cats.^[12] Priests were often called in to [exorcise](#) demons.^[1]

18th to 21st centuries

In factories

MPI outbreaks occurred in factories following the industrial revolution in England, France, Germany, Italy and Russia^[1] as well as the United States and Singapore.

W. H. Phoon, [Ministry of Labour in Singapore](#), gives a case study of six outbreaks of MPI in Singapore factories between 1973 and 1978.^[9] They were characterized by (1) hysterical seizures of screaming and general violence, wherein tranquilizers were ineffective (2) trance states, where a worker would claim to be speaking under the influence of a spirit or [jinn](#) (or genie) and (3) frightened spells: some workers complained of unprecedented fear, or of being cold, numb, or dizzy. Outbreaks would subside in about a week. Often a [bomoh](#) (medicine man) would be called in to do a ritual exorcism. This technique was not effective and sometimes seemed to exacerbate the MPI outbreak. Females and Malays were affected disproportionately.

Especially notable is the "June Bug" outbreak:^[13] In June 1962, a peak month in factory production, 62 workers at a dressmaking factory in a textile town in the [Southern United States](#)^[a] experienced symptoms including severe nausea and breaking out on the skin. Most outbreaks occurred during the first shift, where four fifths of the workers were female. Of 62 total outbreaks, 59 were women, some of whom believed they were bitten by bugs from a fabric shipment,^[16] so [entomologists](#) and others were called in to discover the pathogen, but none was found. Kerchoff coordinated the interview of affected and unaffected workers at the factory and summarizes his findings:

- Strain – those affected were more likely to work overtime frequently and provide the majority of the family income. Many were married with children.
- Affected persons tended to deny their difficulties. Kerchoff postulates that such were "less likely to cope successfully under conditions of strain."
- Results seemed consistent with a model of [social contagion](#). Groups of affected persons tended to have strong social ties.

Kerchoff also links the rapid rate of contagion with the apparent reasonableness of the bug infestation theory and the credence given to it in accompanying news stories.

Stahl and Lebedun^[17] describe an outbreak of mass sociogenic illness in the [data center](#) of a university town in the [United States Midwest](#) in 1974. Ten of 39 workers smelling an unconfirmed "mystery gas" were rushed to a hospital with symptoms of dizziness, fainting, nausea and vomiting. They report that most workers were young women either putting their husbands through school or supplementing the family income. Those affected were found to have high levels of job dissatisfaction. Those with strong social ties tended to have similar reactions to the supposed gas, which only one unaffected woman reported smelling. No gas was detected in subsequent tests of the data center.

In schools

Mass hysteria affected schools in [Berry, Alabama](#) and [Miami Beach](#) in 1974, with the former episode taking the form of recurring [pruritus](#), and the latter initially triggering fears of poison gas (it was traced back to a popular student who happened to be sick with a virus).^[18]

Thousands were affected by the spread of a supposed illness in a province of [Kosovo](#) in March to June 1990, exclusively affecting [ethnic Albanians](#), most of whom were young adolescents.^[19] A wide variety of symptoms were manifested, including headache, dizziness, impeded respiration, weakness/adynamia, burning sensations, cramps, retrosternal/chest pain, dry mouth and nausea. After the illness had subsided, a bipartisan Federal Commission released a document, offering the explanation of psychogenic illness. Radovanovic of the Department of Community Medicine and Behavioural Sciences Faculty of Medicine in Safat, Kuwait reports:

This document did not satisfy either of the two ethnic groups. Many Albanian doctors believed that what they had witnessed was an unusual epidemic of poisoning. The majority of their Serbian colleagues also ignored any explanation in terms of psychopathology. They suggested that the incident was faked with the intention of showing Serbs in a bad light but that it failed due to poor organization.

Rodovanovic expects that this reported instance of mass sociogenic illness was precipitated by the demonstrated volatile and culturally tense situation in the province.^[19]

The [Tanganyika laughter epidemic](#) of 1962 was an outbreak of laughing attacks rumored to have occurred in or near the village of Kanshasa on the western coast of [Lake Victoria](#) in the modern nation of [Tanzania](#), eventually affecting 14 different schools and over 1000 people.

On the morning of Thursday 7 October 1965, at a girls' school in [Blackburn](#) in England, several girls complained of dizziness.^[20] Some fainted. Within a couple of hours, 85 girls from the school were rushed by ambulance to a nearby hospital after fainting. Symptoms included swooning, moaning, chattering of teeth, [hyperpnea](#), and [tetany](#). Moss and McEvedy published their analysis of the event about one year later. Their conclusions follow.^[20] Note that their conclusion about the above-average [extraversion](#) and [neuroticism](#) of those affected is not necessarily typical of MPI:^[1]

- Clinical and laboratory findings were essentially negative.
- Investigations by the public health authorities did not uncover any evidence of pollution of food or air.
- The epidemiology of the outbreak was investigated by means of questionnaires administered to the whole school population. It was established that the outbreaks began among the 14-year-olds, but that the heaviest incidence moved to the youngest age groups.
- By using the [Eysenck Personality Inventory](#), it was established that, in all age groups, the mean E [extraversion] and N [neuroticism] scores of the affected were higher than those of the unaffected.
- The younger girls proved more susceptible, but disturbance was more severe and lasted longer in the older girls.
- It was considered that the epidemic was hysterical, that a previous polio epidemic had rendered the population emotionally vulnerable, and that a three-hour parade, producing 20 faints on the day before the first outbreak, had been the specific trigger.
- The data collected were thought to be incompatible with organic theories and with the compromise theory of an organic nucleus.

Another possible case occurred in Belgium in June 1999 when people, mainly schoolchildren, became ill after drinking Coca-Cola.^[21] In the end, scientists were divided over the scale of the outbreak, whether it fully explains the many different symptoms and the scale to which sociogenic illness affected those involved.^{[22][23]}

A possible outbreak of mass psychogenic illness occurred at Le Roy Junior-Senior High School in 2011, in [upstate New York](#), US, in which multiple students began suffering symptoms similar to [Tourette syndrome](#). Various health professionals ruled out such factors as [Gardasil](#), drinking water contamination, illegal drugs, carbon monoxide poisoning and various other potential environmental or infectious causes, before diagnosing the students with a [conversion disorder](#) and mass psychogenic illness.^[24]

Starting around 2009, a spate of apparent poisonings at girls' schools across Afghanistan began to be reported; symptoms included dizziness, fainting and vomiting. The [United Nations](#), [World Health Organization](#) and NATO's [International Security Assistance Force](#) carried out investigations of the incidents over multiple years, but never found any evidence of toxins or

poisoning in the hundreds of blood, urine and water samples they tested. The conclusion of the investigators was that the girls were suffering from mass psychogenic illness.^{[25][26]}

In August 2019 the BBC reported that schoolgirls at the [Ketereh national secondary school](#) (SMK Ketereh) in [Kelantan, Malaysia](#), started screaming, with some claiming to have seen 'a face of pure evil'. [Dr Simon Wessely](#) of [King's College Hospital](#), London suggested it was a form of 'collective behaviour'. [Robert Bartholomew](#), an American medical sociologist and author, said, "It is no coincidence that Kelantan, the most religiously conservative of all Malaysian states, is also the one most prone to outbreaks." This view is supported by Afiq Noor, an academic, who argues that the stricter implementation of [Islamic law](#) in school in states such as Kelantan is linked to the outbreaks. He suggested that the screaming outbreak was caused by the constricted environment. In Malaysian culture burial sites and trees are common settings for supernatural tales about the spirits of dead infants (*toyol*), vampiric ghosts (*pontianak*) and vengeful female spirits (*penanggalan*). Authorities responded to the Kelantan outbreak by cutting down trees around the school.^[27]

Outbreaks of mass psychogenic illness have been reported in Catholic convents and monasteries across Mexico, Italy and France, in schools in Kosovo and even among cheerleaders in a rural North Carolina town.^[27]

Episodes of mass hysteria has been observed in schools of [Nepal](#) frequently,^{[28][29]} even leading to closure of schools temporarily.^[30] A unique phenomenon of "recurrent epidemic of mass hysteria" was reported from a school of [Pyuthan district](#) of western Nepal in 2018. After a 9-year-old school girl developed crying and shouting episodes, quickly other children of the same school were also affected resulting in 47 affected students (37 females, 10 males) in the same day. Since 2016 similar episodes of mass psychogenic illness has been occurring in the same school every year. This is thought to be a unique case of recurrent mass hysteria.^{[31][32]}

Terrorism and biological warfare

Bartholomew and Wessely anticipate the "concern that after a chemical, biological or nuclear attack, public health facilities may be rapidly overwhelmed by the anxious and not just the medical and psychological casualties."^[1] Additionally, early symptoms of those affected by MPI are difficult to differentiate from those actually exposed to the dangerous agent.^[8]

The first Iraqi missile hitting Israel during the [Persian Gulf War](#) was believed to contain chemical or biological weapons. Though this was not the case, 40% of those in the vicinity of the blast reported breathing problems.^[1]

Right after the [2001 anthrax attacks](#) in the first two weeks of October 2001, there were over 2300 false anthrax alarms in the United States. Some reported physical symptoms of what they believed to be anthrax.^[1]

Also in 2001, a man sprayed what was later found to be a [window cleaner](#) into a subway station in Maryland. Thirty-five people were treated for nausea, headaches and sore throats.^[1]

In 2017, some employees of the US embassy in Cuba reported symptoms (nicknamed the "[Havana syndrome](#)") attributed to "sonic attacks". The following year, some US government employees in China reported similar symptoms. Some scientists have suggested the alleged symptoms were psychogenic in nature.^{[33][34][35]} However, objective findings from [neuroimaging](#) suggest at least some organic, non-[psychogenic](#) cause.^[36]

Children in recent refugee families

Refugee children in Sweden have been reported to fall into coma-like states on learning their families will be deported. The condition, known as [resignation syndrome](#) ([Swedish: *uppgivenhetsyndrom*](#)), is believed to only exist among the refugee population in the Scandinavian country, where it has been prevalent since the early part of the 21st century. Commentators state "a degree of psychological contagion" is inherent to the condition, by which young friends and relatives of the afflicted individual can also come to suffer from the condition.^[37]

In a 130-page report on the condition, commissioned by the government and published in 2006, a team of psychologists, political scientists and sociologists hypothesized that it was a [culture-bound syndrome](#), a psychological illness endemic to a specific society.^[38]

This phenomenon has later been called into question, with children witnessing that they were forced, by their parents, to act in a certain way in order to increase chances of being granted residence permits.^{[39][40]} As evidenced by medical records, healthcare professionals were aware of this scam, and witnessed parents who actively refused aid for their children, but remained silent. Later, [Sveriges Television](#), Sweden's national public television broadcaster, were severely critiqued by investigative journalist [Janne Josefsson](#) for failing to uncover the truth.^[41]

Internet

After the rise of a popular break through YouTube channel in 2019 where the presenter exhibits extensive [Tourettes](#) like behaviour, there was a sharp rise in young people referred to clinics specialising in Tics, thought to be related to [social contagion](#) spread via the internet, and also to stress from [Eco-anxiety](#) and the [COVID-19 pandemic](#). The authors of a August 2021 report found evidence that social media was primary vector for transmission, saying this is the first recorded instance of "mass social media-induced illness" (MSMI).^{[42][43]}

See also

- [Psychology portal](#)
- [Body-centred countertransference](#)
- [Culture-bound syndrome](#) – Psychiatric and somatic symptoms
- [Conversion disorder](#) – Diagnostic category used in some psychiatric classification systems
- [Day-care sex-abuse hysteria](#) – Moral panic and series of prosecutions in North America in the final quarter of the 20th century onwards

- [Folie à deux](#) – Shared psychosis, a psychiatric syndrome in which symptoms of a delusional belief are transmitted from one individual to another (from the French for "a madness shared by two")
- [Herd mentality](#) – Human tendency to adopt beliefs and behaviors favored by one's group
- [Hypochondriasis](#)
- [Hysterical contagion](#)
- [Sick building syndrome](#) – Health concern, where people in a building suffer from symptoms of illness or become infected with chronic disease from the building in which they work or reside
- [1998 East Java ninja scare](#)
- [Satanic ritual abuse](#)