

Difference Between Involuntary And Reflex Action

Myoclonus Myoclonus (myo- "muscle", clonus "spasm") describes a medical sign and, generally, is not a diagnosis of a disease. Shuddering attacks in babies fall in this category. The most common circumstance under which they occur is while falling asleep (hypnic jerk). Myoclonic jerks occur in healthy people and are experienced occasionally by everyone. The most common types of myoclonus include action, cortical reflex, essential, palatal, those Myoclonus is a brief, involuntary, irregular (lacking rhythm) twitching of a muscle, a joint, or a group of muscles, different from clonus, which is rhythmic or regular. These myoclonic twitches, jerks, or seizures are usually caused by sudden muscle contractions (positive myoclonus) or brief lapses of contraction (negative myoclonus). It belongs to the hyperkinetic movement disorders, among tremor and chorea for example. However, when they appear with more persistence and become more widespread they can be a sign of various neurological disorders. with electromyography (EMG) and electroencephalography (EEG). When a spasm is triggered by an external stimulus, it is known as a provoked spasm. Hiccups are a kind of myoclonic jerk specifically affecting the diaphragm 434c637329

== Background == 434c637329 Alien hand syndrome is best documented in cases where a person has had the two hemispheres of their brain surgically separated, a procedure sometimes used to relieve the symptoms of extreme cases of epilepsy and epileptic psychosis, e.g., temporal lobe epilepsy. It also occurs in some cases after brain surgery, stroke, infection, tumor, aneurysm, migraine and specific degenerative brain conditions such as Alzheimer... 434c637329 == Evolutionary significance == 434c637329

Alien hand syndrome There are many similar terms for the various forms of the condition, but they are often used inappropriately. There are a variety of clinical conditions that fall under this category, most commonly affecting the left hand. Goldstein developed a "doctrine of motor apraxia" in which he discussed the generation of voluntary action and proposed Alien hand syndrome (AHS) or Dr. The affected person may sometimes reach for objects and manipulate them without wanting to do so, even to the point of having to use the controllable hand to restrain the alien hand. similar involuntary motions. Strangelove syndrome or Alien Limb Syndrome is a category of conditions in which a person experiences their limbs acting seemingly on their own, without conscious control over the actions. The occurrence of alien hand syndrome can be usefully conceptualized as a phenomenon reflecting a functional "disentanglement" between thought and action 434c637329

== Symptoms and signs == 434c637329 In modern science, increasingly more is understood about when, how, and why paralysis occurs. However, public awareness about paralysis is still limited, which has negative consequences for the prevention, punishment and processing of sexual violence. Paralysis is sometimes also called freezing, although scholars prefer avoiding this word usage to prevent confusion with the 'freeze' (hypervigilance) response that usually precedes it (see below). 434c637329

Utilization behavior The unpreventable excessive behavior has been linked to lesions in the frontal lobe. This may not seem incorrect but the difference in action to a person without UB is that the 'object-appropriate' action taken is performed at the inappropriate Utilization behavior (UB) is a type of neurobehavioral phenomena that involves someone grabbing objects in view and starting the 'appropriate' behavior associated with it at an 'inappropriate' time. UB has also been referred to as "bilateral magnetic apraxia" and "hypermetamorphosis". Characteristics of UB include unintentional, unconscious actions triggered by the immediate environment. Patients exhibiting utilization behavior have difficulty resisting the impulse to operate or manipulate objects which are in their visual field and within reach 434c637329

Prepulse inhibition via air puffs onto the skin) and light stimuli are also used. reaction of an organism to a subsequent strong reflex-eliciting stimulus (pulse), often using the startle reflex. When prepulse inhibition is high, the corresponding one-time startle response is reduced. g. The stimuli are usually acoustic, but tactile stimuli (e. The stimuli are usually acoustic, but tactile Prepulse inhibition (PPI) is a neurological phenomenon in which a weaker prestimulus (prepulse) inhibits the reaction of an organism to a subsequent strong reflex-eliciting stimulus (pulse), often using the startle reflex 434c637329

In some animals, in addition to expelling waste material, urination can mark territory or express submissiveness. Physiologically, urination involves coordination between the central, autonomic, and somatic nervous systems. Brain centres that regulate urination include the pontine micturition center, periaqueductal gray, and the cerebral cortex. 434c637329

Palmar grasp reflex When an object, such as an adult finger, is placed in an infant's palm, the infant's fingers reflexively grasp the object. The reverse motion can be induced by stroking the back or side of the hand. Placement of the object triggers a spinal reflex, resulting from stimulation of tendons in the palm, that gets transmitted through motor neurons in the median and ulnar sensory nerves. The palmar grasp reflex (or grasp reflex) is a primitive and involuntary reflex found in infants of humans and most primates. When an object, such as The palmar grasp reflex (or grasp reflex) is a primitive and involuntary reflex found in infants of humans and most primates 434c637329

== Anatomy and physiology == 434c637329 A fetus exhibits the reflex in utero by 28 weeks into gestation (sometimes, as early as 16 weeks), and persists until development of rudimentary fine motor skills between two and six months of age. 434c637329

Urination It is the urinary system's form of excretion. consciously relaxed during micturition. In infants, voiding occurs involuntarily (as a reflex). The process of urination is under voluntary control in healthy humans and other animals, but may occur as a reflex in infants, some elderly individuals, and those with neurological injury. It is normal for adult humans to urinate up to seven times during the day. The ability to voluntarily inhibit micturition develops by the Urination is the release of urine from the bladder through the urethra in placental mammals, or through the cloaca in other vertebrates. It is also known medically as micturition, voiding, uresis, or, rarely, emiction, and known colloquially by various names including peeing, weeing, pissing, and euphemistically number one 434c637329

== Education and early life == 434c637329 The reduction of the amplitude of startle reflects the ability of the nervous system to temporarily adapt to a strong

sensory stimulus when a preceding weaker signal is given to warn the organism. PPI is detected in numerous species including mice and humans. Although the extent of the adaptation affects numerous systems, the most comfortable to measure are the muscular reactions, which are normally diminished as a result of the nervous inhibition. 434c637329 Biologists have found that the reflex is significantly more frequent in infants of fur carrying primate species. It is theorized that the grasping reflex evolved as it is essential to survival in species, usually primates, where the young are carried in the fur. The infant's ability to grasp onto a mother's fur allows the mother to keep the infant with her while foraging for food or moving from one place to another. This is beneficial to the mother because... 434c637329 Surprise is included as a primary or basic emotion in the taxonomies of Carroll Izard and Paul Ekman. According to these perspectives, surprise is evolutionarily adaptive, and also innate and universal across human cultures. 434c637329

Ivan Pavlov Most of his work involved research in temperament, conditioning and involuntary reflex actions. S. physiology and neurological sciences. Pavlov performed and directed Ivan Petrovich Pavlov (Russian: Иван Петрович Павлов, IPA: [ɪˈvan pʲɪˈtrovʲɪtɕ ˈpavləf] ; 26 September [O. 14 September] 1849 – 27 February 1936) was a Russian and Soviet experimental neurologist and physiologist known for his discovery of classical conditioning through his experiments with dogs. Pavlov also conducted significant research on the physiology of digestion, for which he was awarded the Nobel Prize in Physiology or Medicine in 1904 434c637329

Surprise can have any valence. That is, it can be pleasant/positive, unpleasant/negative, or neutral/moderate. Surprise can occur in varying levels of intensity ranging from very surprised, which may induce the fight-or-flight response, or slightly surprised, which elicits a less intense response to the stimulus. 434c637329

Rape paralysis In human sexuality, paralysis, also known as rape paralysis, involuntary paralysis, fright (or faint), or tonic immobility, is a natural bodily survival In human sexuality, paralysis, also known as rape paralysis, involuntary paralysis, fright (or faint), or tonic immobility, is a natural bodily survival reaction which can be automatically activated by the brain of a person who feels threatened by sexual violence. Paralysis is a survival reaction which the brain applies to the body whenever all other options to avoid sexual violence (prevent, freeze (hypervigilance), flight, fight, compromise) have been exhausted. This survival reaction is a reflex; it automatically occurs without one's conscious choice, and one cannot stop it from happening. During this paralysis, one cannot move and cannot say anything, until one feels safe enough again 434c637329

Myoclonic jerks may occur alone or in sequence, in a pattern or without pattern. They may occur infrequently or many times each minute... 434c637329

Surprise (emotion) It is related to the startle response experienced by animals and humans as the result of an unexpected event. represents the difference between expectations and reality, the gap between our assumptions and expectations about worldly events and the way that those Surprise () is a rapid, fleeting mental and physiological state 434c637329

== Scientific explanations == 434c637329

Photic sneeze reflex The condition affects 18 to 35% of the world's population, but its exact mechanism of action is not well understood. sneeze reflex (also known as

ACHOO syndrome, a contrived acronym for Autosomal-dominant Compelling Helio-Ophthalmic Outburst) is an inherited and congenital The photic sneeze reflex (also known as ACHOO syndrome, a contrived acronym for Autosomal-dominant Compelling Helio-Ophthalmic Outburst) is an inherited and congenital autosomal dominant reflex condition that causes sneezing in response to numerous stimuli, such as looking at bright lights or periocular (surrounding the eyeball) injection 434c637329

Deficits of prepulse inhibition manifest in the inability to filter out the unnecessary information; they have been linked to abnormalities of sensorimotor gating. Such deficits are noted in patients with conditions like schizophrenia and Alzheimer's disease, and in people under the influence of drugs, surgical... 434c637329 Individuals who display utilization behavior tend to reach out and begin to automatically use objects in the visual field of their environment. This may not seem incorrect but the difference in action to a person without UB is that the "object-appropriate" action taken is performed at the inappropriate time. For example, a person will be shown a pair of glasses and automatically put them on. This demonstrates the appropriate action at the "inappropriate" time. This causes the inappropriate motor responses to specific objects in the environment... 434c637329 == Causes == 434c637329

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