A case of autistic spectrum disorder in which benzodiazepines are effective in childhood onset fluency disorder

Toshiro Takami*

【Abstract】
We experienced cases in which benzodiazepines were successful in childhood onset stuttering disorder. The case was autistic spectrum disorder, and there was a dull articulation while being milder than childhood. Immediately before the high school days ended, cases complicated of social anxiety disorder. Since we visited our hospital, we have prescribed large quantities of benzodiazepines.
As in this case, there is a possibility that there are potentially many cases in which benzodiazepines are strongly effective against childhood onset fluency disorder. In case This implies childhood onset stuttering disorder is unknown partial epilepsy starting from the basal ganglia with no abnormality in brain waves. It is also possible that there may be childhood onset flu-dysfunction as psychogenic nonepileptic seizure.

[Key words] Childhood-onset fluency disorder, autism spectrum disorder, benzodiazepine derivatives, partial epilepsy, psychogenic nonepileptic seizure psychogenic non-epileptic seizure)

【Introduction】
Childhood onset fluency disorder has been extensively studied as a serious disease in Europe and the United States. Due to its high family integrity, it has been regarded as an inherited disorder. Childhood onset flu dystonia develops from 3 to 6 years of age, it is observed in 5% in early childhood, but in 1% in adults 33). Because there are many cases that remit in this way until becoming an adult, there is a possibility that it is similar to partial epilepsy. Also, it is said that men are four times more female than children in the childhood period 33). Compared with the normal average, in the case of parents with childhood onset fluency disorder, the probability that a child has childhood onset fluency disorder is tripled 33). Fluency impairment may occur in adults due to cerebral infarction or extremely severe head bruising 18, 37).
Currently, the search for genetic loci of childhood onset fluency disorder is progressing more rapidly than the study of multiple families. Many loci of childhood onset fluency disorder
have been found 12, 29, 30, 32, 33), childhood onset fluency disorder is considered as one syndrome caused by many factors 33).

【Case】
(Case) 56 years old, male, right handed (father, mother, older sister also right handed)
(Family history) There is no childhood onset illness fluency disorder and epilepsy in parent brother older sister and close relative.
My father took me to the university hospital psychiatrist from my grandfather who was extremely strict because I walked around without going to school during my high school days, and I was diagnosed with personality disorder (no medication).
However, the father is also very strong stiffness, it is strongly possible that it was simply autism spectrum disorder. Although my father was strict with my mother, I am very gentle with my child and I have never remembered my case from my father.
My father also had a morbid heat like a case. My father also ran short-range fast.
(Personality) Strong stiffness, nervousness, gentle, obedient, good-hearted, endeavor.
(History) None to be noted
(Current medical history / life history) When my father is 25 years old, my mother is 24 years old, there are no items to mention in perinatal period. There is nothing told from parents and relatives about infantile epilepsy and early childhood epilepsies such as fever seizures.
My father did not work and my mother worked alone to cover household budgets, probably because of stress caused by family discord. In case
Until kindergarten, it was a very crybaby, and every day especially when it was evening I had to cry for several hours without any reason. Also, when I was in kindergarten, I could not walk a very close distance from the bus stop to my house from the kindergarten bus, I always cried at the bus stop. The kindergarten passed only for one year, but because the case greatly disliked the park, the rubella etc was very prolonged, only about a dozen or so times he attended. When I was a kindergarten, I was spoken to by a girl, but I could not speak, I was derided for a flu disorder.
Growth was fast, when entering elementary school the height of the tall was second from the highest in the class.
When I become an elementary school student, I will not cry at all, I ran from home to the school (about 15 minutes in elementary school first graders) to go to school. I was not good at interpersonal relationships. There were no friends until the age of elementary school. In elementary school 2nd year, friends of classmates made friends with each other, parents came to play together like the everyday after the school was over. The friend had a very gentle personality.
There was some articulatory disturbance such as not being able to distinguish between "ki" and "chi" from elementary school age. Although it says still continues now, for example, I
did not know how to pronounce "Earth". Even now, the case still has unknown pronunciation, and I am very bad at telephone.

In elementary school lower grade, at the time of class, the habit of attaching "that guy" first is continued, and it was often pointed out by the teacher, but it was not improved easily, but it was improved in the 4th grade of elementary school. It is memorized as next. It was easy to say saying "Hey" first. In case

Because I was a country, I have never been bothered because my math (mathematics) was extremely excellent.

"In the evening, as the head is dazzling, the reality becomes thin" and "Chopsticks stopped for a few minutes to ten minutes as a bonito at dinner time" often happened in elementary school lower grades. These seizures no longer occurred at the end of elementary school fourth or fifth year.

During exercise, I could not pull out the force well, so I was not good at exercising. The third year of elementary school, I was ridiculed that the way of running was awkward, and was given a nickname from "Dochin Batten" and its way of running. In case

I do not do anything, but I know that the strength of the brachial muscles can be achieved in the third grade of elementary school. Because body fat is very low, it can be thought that bowel movements are conspicuous.

It was said that surprising reactions are much stronger than ordinary people 40) and elementary school students. The head circumference was big. Also, I was afraid to go to the toilet at night when I was in elementary school. Religious fear was stronger than in elementary school days. In case

In the fourth grade of elementary school, the abdominal muscles are stretched very strongly, and I realize that it is okay to beat strongly on the abdomen. Also, I realize that almost everyone can do sit-up exercise.

Elementary school 4th year 5th year, when it ran, it got talked about distorting his face and being funny.

Growth is fast, height growth has almost ended in the first year of junior high school, and in the first year of junior high school there is also a time when 50 m running becomes the fastest in the grade. I ran fast in short distance, but I was not good at long distance driving.

In junior high school, several times, a relentless fluency disorder was ridiculed from a close friend, but I was a close friend and I did not mind too much. Sleep paralysis occasionally occurred in the second year of junior high school. In case

I notice that the first word does not appear in the first year of high school. It is presumed that the sequentiality changed to difficulty. This makes you very suffering from fluency obstacles. During the classes of the national language, the first first word did not come out, frequented to leave early before the class of the national language, and repeatedly refused to go to school again many times.
During high school, when stress accumulates, I know that fluency disorders become severe. The science and mathematics system was extremely excellent, but English was very poor. I did not study mathematics at all, I was studying English only, English was always the worst score. In the national language also the result was bad. I was thinking that the language system was inherently weak and cases. English pronunciation is funny and became a topic from junior high school days. I was often told that when I was in high school I did not understand sarcasm or sarcasm.

It seems that it was also in the first half of the university period and junior high school days, but somehow power entered into the mouth, aware that the mouth is distorted. There were many things to be pointed out, especially in high school days. In addition, although cases were only aware of the power entering the face, there were many cases to be pointed out, especially in high school, that it is said that it has a funny expression. Society anxiety disorder (interpersonal tension) develops around the end of high school 3 years. At the time of the second exam, it falls to T University who was naturally nervous and was an aspiring school. Because of socializing anxiety disorder, the preparatory school resigns in two months and returns to the local. And I did a homewy. I will unleashl enter the local former Imperial University.

During college years, I was honored to read English sentences during my English lesson, I could not read English sentences due to fluency obstacles, I feel embarrassed. Also, during college years, due to socializing anxiety disorder, it was very difficult to attend classes where people got crowded, and repeatedly retired. Because of fluency disorder and social anxiety disorder, friends could not do in college days. In the latter half of the university period, acupuncture, fluctuant disorder, stellate ganglion block effective from the net knowing from the net, I received them. Especially the stellate ganglion block had a very strong effect both in fluency disorder and social anxiety disorder. In the 4th year of university, a year after school, when I retire, I have broken my skull due to a motorcycle accident that a front collision with an opposing car, I was hospitalized for 2 months (4 weeks and a half after trauma). At this time, head MRI was enforced but there is no particular mention.

After this accident, I was suffering from fluency disorder and social anxiety disorder, and I visited our hospital. I will become the doctor and start administration of benzodiazepines. I prescribed cloxazolam, flurazepam, lorazepam, clorazepate, flunitrazepam, flutoprazepam, ethyl lofrazepate, clonazepam, alprazolam etc, but good efficacy was found for flu disorder except for ethyl lofrazepate, clonazepam, alprazolam. It is speculated that alprazolam is due to anticholinergic action, but flu - ditional disorder has deteriorated severely when taken. Ethyl lofrazepate, clonazepam could hardly perceive the effect whether the effect was weak. I prescribed amitriptyline, but as I take 1 tablet I keep sleeping for 24 hours, about 3 days, my flu disorder becomes severe and severe, and taking takes 1 time.
Although I prescribed tandospirone, I was not able to have any effect on fluency disorder and social anxiety disorder. In addition, meprobamate was prescribed but only slight efficacy was found in fluency disorder and social anxiety disorder. According to the request of the case, prescribed carbamazepine, phenytoin, sodium valproate, eperisone, haloperidol, sulpiride in a very short term prescription, but all efficacy was observed in all fluency disorders and social anxiety disorder There was not. In the case of carbamazepine, the flu-like impairment was rather severe. As a result of various investigations, I settle to prescription of bromazepam 20 mg / day, diazepam 15 mg / day, etizolam 3 mg / day. Benzodiazepines are dramatically effective for fluency disorder, but socializing anxiety disorder is a problem, although socializing anxiety disorder is effective but insufficient. After graduating from university, I get a job as a programmer who I studied myself at college. I thought that the programmer could do it alone at home, but the case was discouraged by what I had to do at the company. Although it was a professional programmer, I had little to speak, but there was socializing anxiety disorder. In order to alleviate interpersonal tension, he had to take a large dose of benzodiazepines. On the day off, we tried not to take benzodiazepines. Moreover, it was life as a round trip between the company and the apartment. I can say that the case was a reason why the patient was engaged in software making himself, regardless of the work at the company on the day of holiday and on the day off on the day off. Benzodiazepines are dissolved in the oropharynx just prior to speaking on a phone, and cases are used. When absorbed from the oropharyngeal mucosa, the case asserts that it goes directly to the brain without going through the liver, so it works quickly and well. In case The case is very hot for about 40 minutes such as when stimulating the sympathetic nerve, when arriving at the company, when eating lunch, when taking a bath, etc. He went to a suspected hospital for suspected pheochromocytoma and tested the blood, "dopamine and the like have not risen at all, it is not a pheochromocytoma where sympathetic nerves are considered to be very sensitive" is said. This morbid hot weather is not so memorable when I was in elementary school, The case is very hot for about 40 minutes such as when stimulating the sympathetic nerve, when arriving at the company, when eating lunch, when taking a bath, etc. He went to a suspected hospital for suspected pheochromocytoma and tested the blood, "dopamine and the like have not risen at all, it is not a pheochromocytoma where sympathetic nerves are considered to be very sensitive" is said. I remember that this morbid hot weather was not remembered when I was in elementary school age and became more prominent than junior high school or high school next. When I was 30 years old, I had influenza, I took 10 tablets of loxoprofen sodium, but the heat did not go down at all, I took 4 tablets of diclofenac sodium, it got relieved and it became
easy to relieve it was still insufficient and still painful, I take 1 additional tablet. It got easier as the heat fell down enough. However, after 2 hours it gets hot again and it gets painful again, taking 4 tablets of diclofenac sodium again, it is not enough to relieve the heat and it is inadequate, I have taken 1 additional tablet and enough heat has fallen to make it easy to relax. In this way, I was proud that the case is very strong for medicine.

At the age of 32, I take about 6 bags of cold medicine with a bag of cold medicine in the morning before entering the company, I take about 6 bags and go to the company. On that day, when I was having lunch at the company, I gave an episode saying I had a meal dish in front of my head and left it for about 10 minutes. I could not believe the case at a later date, and I asked several people, but I agree that there was that indeed. From the president of the company, I was inspected whether it was a sequela of a traffic accident in college days, but there was nothing special to mention in the head MRI, brain waves, intelligence, etc., only a strong obstacle was found in the memorizing ability. It was. The ability of the case as a programmer was extremely high, especially from the president was very important. In case of considering the possibility of socializing anxiety disorder considering the possibility of taking personal importation buspirone, the effect was weak against social anxiety disorder and fluency disorder, and whether the dose was large in order to obtain effect, caused a lot of conscious change.

Risperidone 22), olanzapine 23) was taken individually imported expecting to be effective for socializing anxiety disorder, but only with side effects, there was no effect on socializing anxiety disorder, fluency disorder. Taking dose 1 mg of risperidone, I was totally fatigued, I lay down on the sofa for about 2 hours and I have just returned.

There is no doubt that too much malnutrition is coming so much, so it's no doubt that it was taken too much, but while taking olanzapine, I will have a seizure while driving a car. While driving a car with a 1 year old child on the passenger seat, suddenly the consciousness disappeared, the car stopped at the end of the road and seemed to be asleep. The case was an enthusiastic fan of F1, and it was about running F1 race video as background music during work. Television is not watching except for F1 Years and 15 years have passed. Therefore, I like the manual transmission very much, it is a car of the manual transmission and may have unconsciously put it in neutral as seizure occurs. However, there was a precursor, stopped at the end of the roadway, it was thought that the possibility that there is no memorization of aura with amnesia caused by a seizure is the highest.

The car seems to have been damaged, as well as not scratched. Because I had no traffic violation at all, I thought later that a policeman came to the place where the child was crying at the baby chair.

It seems that it was carried from the police officer to the brain surgery hospital. I do not remember anything until I was transported to the brain surgery hospital at all. Although I am restoring consciousness at the time of arriving at the hospital, my consciousness is stupid, my
head MRI was taken at the hospital, it was regarded as abnormal, and I walked home to the immediate home, but the incident in the hospital There is a partial memory. It is the same as lunch episode because there is no memory of aura. The case imported individuals fluoxetine 3), paroxetine 5, 7), sertraline 9) for several years, I wanted to heal socializing anxiety disorder but I was taking a relatively large dose, but I had no effect on social anxiety disorder and fluency disorder. In addition, I had taken a relatively large amount of moclobemide for personal importation and socializing anxiety disorder for about 4 years but I had no effect. The case itself, "I can not read the air in the place, I do not know the heart of men, pathological stiffness, morbid clumsiness of the hands and physical exercise, morbid clumsiness of interpersonal relationship, speaking with the eyes of the person I can not do "and assert that it is a typical Autism Spectrum Disorder.

【Discussion】Since the case was Autism Spectrum Disorder, stress tolerance is low, anxiety disorder is an anxiety disorder from an early age, muscle tension is abnormally strong, and symptoms such as articulation disorder, inability to perform abdominal exercise, and awkward maneuverability appear It is also speculated. However, the case still can not distinguish between "ki" and "chi", I do not know when typing "earth" with the keyboard. Because cases have some epilepsy, benzodiazepines may be effective in fluency disorder. However, because strong muscle tone due to anxiety disorder is understood by benzodiazepine drugs, mechanisms that are effective for flu-like disorders are also conceivable. It may also be a childish-onset fluency disorder as a psychogenic nonepileptic seizure due to stress. No literature suggesting the association between epilepsy and fluency disorder was found. However, although there is a paper 38 indicating that antidepressant drug levetiracetam has efficacy in cases of fluency disorder and partial epilepsy, the case may be applicable. Neurosurgical surgery is performed in the United States against fluency disorder. Because the organic functional disorder of the basal ganglia is considered to be the basis of fluency disorder 4, 13). Recently, epileptic seizures are less likely to occur due to vagal nerve stimulation, so surgery for vagus nerve stimulation therapy is frequently carried out 39). It is possible that this mechanism may be effective for acupuncture / astroglastic ganglion block and benzodiazepine drugs for fluency disorder of the case. Benzodiazepines are sometimes arrested because of their dependence because they are closer to narcotics treatment in Europe and the United States, possessing it without prescription.
In Europe and the United States, studies of fluency disorders are very active in the past, but it is possible that a paper showing the efficacy of benzodiazepine drugs for fluency disorders is not found.

Although it is a benzodiazepine drug even in Europe and America, alprazolam and clonazepam are fluency disorder. However, alprazolam has an anticholinergic effect, and immediately after taking it, the fluency disorder is strong and severe as in cases 14). In addition, the case was sometimes taken clonazepam, but I could not feel the effect. In Europe and the US, alprazolam is most frequently used as a benzodiazepine drug if it is weakly dependent, so it seems that benzodiazepines are recognized to cause severe fluency disorder. Clonazepam, an antiepileptic drug, is a benzodiazepine drug that has been used for a long time, and it is prescribed relatively frequently in the West.

For that reason, clonazepam's psychological indications of socializing anxiety disorder and panic disorder are shown in papers 10, 11, 28, 34), but no papers showing efficacy for fluency disorder are found.

Similarly, clobazam which is an antiepileptic drug is a benzodiazepine drug released relatively recently, but this article does not find a paper showing the effect on fluency disorder.

Although pagoclone was noted to have efficacy in stuttering disorder, it has a pharmacological action close to that of benzodiazepines, and its dependence is concerned and not released, 17,24).

Benzodiazepines like benzodiazepines are dramatically effective in stuttering disorder, there are a large number, whether there are many, in Europe and the USA benzodiazepines are closer to narcotics treatment, except for alprazolam and clonazepam which are said to be less dependent. Because it is rarely prescribed, judgment is difficult.

There are reports that the fluency disorder became mild according to SSRIs fluoxetine 3), paroxetine 5, 7), sertraline 9). However, there are also papers 6, 8, 21) that sertraline causes flu-like impairment. In those cases SSRIs did not mitigate the flu-like impairment.

Since childhood onset flu-dysfunction is often severe due to stress and there is no EEG abnormality, it is possible that it may be a state similar to non-convulsive status epilepticus [27].

【conclusion】
Even if you take carbamazepine 15, 16, 35), which is said to have efficacy in partial epilepsy and has efficacy in flu-like disorder, flu disorder in the case becomes rather severe.

The mechanism of action of carbamazepine and benzodiazepines is different.

A benzodiazepine drug whose case is said to have efficacy in stuttering disorder is a drug having efficacy in partial epilepsy.
Childhood onset flu - ditonal disorder seems to be an unknown partial epilepsy originating from basal ganglia 31) in which abnormality does not appear in brain waves.

---- This is an announcement conforming to the ethical principles of research and research ----

(Literature)


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A case of autism spectrum disorder in which benzodiazepine derivatives are effective effective childhood-onset fluency disorder

*m* toshichan-man : toshichan-man hospital

mmm82889@yahoo.co.jp

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